

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to these events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at crest-stage partial-record stations are presented in the following table. Discharge measurements made at miscellaneous sites and for special studies are given in separate tables.

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device that will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Maximum discharge at crest-stage partial-record stations during water year 2002

Station name and number	Location and drainage area	Period of record (water years)	Water year 2002 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
POTOMAC RIVER BASIN								
Chub Run near Stanley, VA (01629945)	Lat 38°34'31", long 78°27'31", NAD83, Page County, Hydrologic Unit 02070005, at culvert on State Highway 689, 2.2 mi east of Stanley, and 3.1 mi upstream from mouth. Datum of gage is 1,023.05 ft above sea level. Drainage area is 3.16 mi ² .	1959-69a, 1970-02	-	<2.14	<177	9-6-96	>10.08	*
Crooked Run near Mt. Jackson, VA (01632970)	Lat 38°45'44", long 78°41'05", NAD83, Shenandoah County, Hydrologic Unit 02070006, on right upstream wingwall of culvert on State Highway 263, 0.4 mi upstream from mouth, and 2.3 mi west of Mt. Jackson. Datum of gage is 962.84 ft above sea level. Drainage area is 6.49 mi ² .	1972-02	-	<2.91	<192	1-19-96	11.34	5,700
Pughs Run near Woodstock, VA (01633650)	Lat 38°55'48", long 78°32'42", NAD83, Shenandoah County, Hydrologic Unit 02070006, on left upstream wingwall of culvert on State Highway 623, 4.0 mi northwest of Woodstock, and 5.4 mi upstream from mouth. Datum of gage is 1,027.27 ft above sea level. Drainage area is 3.66 mi ² .	1971-02	4-22-02	4.32	80	9- 6-96	13.39	1,100
GREAT WICOMICO RIVER BASIN								
Bush Mill Stream near Heaths- ville, VA (01661800)	Lat 37°52'36", long 76°29'41", NAD83, Northumberland County, Hydrologic Unit 02080102, on right bank 12 ft upstream from bridge on State High- way 601, 2.2 mi northwest of Howland, and 3.0 mi southwest of Heathsville. Datum of gage is 22.22 ft above sea level. Drainage area is 6.82 mi ² .	1964-69†, 1970-86†, 1987-02	4-22-02	3.46	8.0	9-16-99	11.50	1,390

* Discharge not determined.

† Operated as a continuous-record gaging station.

< Less than.

> Greater than.

a Records provided by U.S. Department of Agriculture, Soil Conservation Service.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations during water year 2002--Continued

Station name and number	Location and drainage area	Period of record (water years)	Water year 2002 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
RAPPAHANNOCK RIVER BASIN								
Pony Mountain Branch near Culpeper, VA (01665050)	Lat 38°27'04", long 77°57'23", NAD83, Culpeper County, Hydrologic Unit 02080103, at culvert on State Highway 3, 0.3 mi upstream from mouth, and 2.7 mi southeast of Cul- peper. Elevation of gage is 335 ft above sea level, from topographic map. Drainage area is 0.30 mi ² .	1958-69a, 1970-02	7-14-02	1.03	16	8-16-70	4.02	196
Farmers Hall Creek near Champlain, VA (01668300)	Lat 38°00'05", long 76°58'39", NAD83, Essex County, Hydro- logic Unit 02080104, on left upstream wingwall of culvert on U.S. Highway 17, 1.0 mi upstream from Rouzie Swamp, and 1.2 mi southeast of Champlain. Datum of gage is 42.10 ft above sea level. Drainage area is 2.18 mi ² .	1966-02	4-22-02	3.06	21	8-20-69	19.2	510
YORK RIVER BASIN								
Pamunkey Creek at Lahore, VA (01670180)	Lat 38°11'33", long 77°58'08", NAD83, Orange County, Hydro- logic Unit 02080106, on right bank on upstream side of bridge on State Highway 669, 0.45 mi south of Lahore, and 3.8 mi upstream from Lake Anna. Elevation of gage is 200 ft above sea level, from topographic map. Drainage area is 40.5 mi ² .	1989-91†, 1992-02	4-22-02	6.53	997	6-27-95	17.20	6,900
Contrary Creek near Mineral, VA (01670300)	Lat 38°03'53", long 77°52'44", NAD83, Louisa County, Hydro- logic Unit 02080106, on left bank 200 ft downstream from bridge on U.S. Highway 522, 4.0 mi northeast of Mineral. Elevation of gage is 275 ft above sea level, from topo- graphic map. Drainage area is 5.53 mi ² .	1976-86†, 1987-02	-	<1.83	<92	11-28-93	6.94	7,050
		Correction 1999 WY	9-29-99	2.53	304			
Waldrop Creek near Louisa, VA (01671650)	Lat 38°00'09", long 78°04'21", NAD83, Louisa County, Hydro- logic Unit 02080106 on left upstream wingwall of culvert on State Highway 632, 2.3 mi upstream from mouth, and 4.2 mi southwest of Louisa. Datum of gage is 361.41 ft above sea level. Drainage area is 2.85 mi ² .	1969-02	4-22-02	2.96	33	8-20-69	21.00	2,500
South Anna River near Ashland, VA (01672500)	Lat 37°47'49", long 77°32'56", NAD83, Hanover County, Hydro- logic Unit 02080106, on down- stream side of bridge on State Highway 54, 5 mi spstream from Newfound Fiver and 4.5 mi west of Ashland. Drainage area is 394 mi ² .	1931-97†, 2001-02	1-7-02	8.82	2,350	8-23-69	24.99	17,100

† Operated as a continuous-record gaging station.

< Less than.

a Records provided by U.S. Department of Agriculture, Soil Conservation Service.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations during water year 2002--Continued

Station name and number	Location and drainage area	Period of record (water years)	Water year 2002 maximum		Period of record maximum			
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
YORK RIVER BASIN--Continued								
Reedy Creek near Dawn, VA (01674200)	Lat 37°52'56", long 77°21'34", NAD83, Caroline County, Hydro- logic Unit 02080105, at bridge on U.S. Highway 301, 3.3 mi north of Dawn, and 11 mi south of Bowling Green. Drainage area is 16.8 mi ² .	1951-69, 1972-02	1-7-02	4.19	125	8-20-69	7.28	2,500
JAMES RIVER BASIN								
Jackson River at Falling Spring, VA (02012500)	Lat 37°52'36", long 79°58'38", NAD83, Alleghany County, Hydrologic Unit 02080201, on right bank 20 ft upstream from Smith Bridge, 0.8 mi south of Falling Spring, and 5.5 mi north of Covington. Datum of gage is 1,333.49 ft above sea level. Drainage area is 411 mi ² .	1925-84†, 1987-02	4-29-02	8.80	4,540	3-17-36 b1913	14.74 20	24,700 c50,000
Cowpasture River near Head Waters, VA (02015600)	Lat 38°19'30", long 79°26'13", NAD83, Highland County, Hydro- logic Unit 02080201, on left downstream wingwall of bridge on U. S. Highway 250, 1.2 mi west of Head Waters, and 3 mi upstream from Shaw Fork. Datum of gage is 1,985.65 ft above sea level. Drainage area is 11.3 mi ² .	1949-94, 1996-02	4-22-02	5.92	300	6-17-49	6.5	5,650
Craig Creek tributary near New Castle, VA (02017700)	Lat 37°33'21", long 79°59'51", NAD83, Craig County, Hydro- logic Unit 02080201, on right upstream wingwall of culvert on State Highway 606, 0.4 mi upstream from mouth, and 7.1 mi northeast of New Castle. Drainage area is 2.05 mi ² .	1968-02	-	<2.79	<10.5	11-4-85	13.45	1,100
Renick Run near Buchanan, VA (02020100)	Lat 37°35'27", long 79°38'03", NAD83, Botetourt County, Hydrologic Unit 02080201, on left upstream wingwall of culvert on Frontage Road F054 of Interstate Highway 81 between Exits 168 and 169, 2.2 mi upstream from mouth, and 4.8 mi northeast of Buchanan. Datum of gage is 1,261.85 ft above sea level. Drainage area is 2.06 mi ² .	1967-02	-	<2.34	-	8-20-69	9.90	1,210
James River at Bedford Dam near Major, VA (02024750)	Lat 37°34'40", long 79°22'35", NAD83, Amherst County, Hydro- logic Unit 02080203, on left bank 10 ft upstream from head- gates on headrace to city of Bedford hydroelectric plant, 1.2 mi north of Major, and 1.4 mi upstream from Blue Ridge Parkway. Drainage area is 3,070 mi ² .	1989-02	4-23-02	7.92	21,800	1-20-96	14.63	104,000

† Operated as a continuous-record gaging station.
 < Less than.
 b Maximum known historical peak outside period of record.
 c Approximate.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations during water year 2002--Continued

Station name and number	Location and drainage area	Period of record (water years)	Water year 2002 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
JAMES RIVER BASIN--Continued								
Buffalo River tributary near Amherst, VA (02027700)	Lat 37°33'45", long 78°57'35", NAD83, Amherst County, Hydro- logic Unit 02080203, on left bank just upstream from cul- vert on U.S. Highway 60, 0.8 mi upstream from mouth, and 5.2 mi southeast of Amherst. Datum of gage is 583.66 ft above sea level. Drainage area is 0.46 mi ² .	1966-02	-	<2.76	<16	9-6-96	7.33	196
Stockton Creek near Afton, VA (02030800)	Lat 38°01'48", long 78°48'29", NAD83, Albemarle County, Hydro- logic Unit 02080204, on left upstream wingwall of cul- vert on State Highway 6, 1.7 mi east of Afton, and 4.3 mi upstream from Stony Run. Datum of gage is 835.27 ft above sea level. Drainage area is 2.80 mi ² .	1967-02	-	<3.97	<27	6-21-72 11-23-92	9.68 d9.73	678 425
Muddy Run near Stanardsville, VA (02032300)	Lat 38°14'05", long 78°37'01", NAD83, Albemarle County, Hydrologic Unit 02080204, on right downstream abutment of bridge on State Highway 810, 0.7 mi upstream from mouth, and 11 mi southwest of Stanardsville. Datum of gage is 756.79 ft above sea level. Drainage area is 3.36 mi ² .	1967-02	-	<6.15	<35	5-13-78	8.33	92
								Revision: Maximum discharges published in previous reports and dates of period of record maximum are in error.
Moores Creek near Char- lottesville, VA (02033300)	Lat 38°00'26", long 78°34'24", NAD83, Albemarle County, Hydro- logic unit 02080204, on right downstream wingwall of culvert on access road, 30 ft north of U.S. Highway 29, 2.8 mi upstream from Morey Creek, and 4 mi southwest of Char- lottesville. Datum of gage is 505.40 ft above sea level. Drainage area is 3.52 mi ² .	1967-02	-	<13.76	<75	6-2-79	18.74	*
Falling Creek near Midlothian, VA (02037800)	Lat 37°27'16" long 77°35'19", NAD83, Chesterfield County, Hydrologic Unit 02080206, on downstream of bridge on State Highway 653, 2.2 mi upstream from Horners Run and 4 mi southeast of Midlothian. Elevation of gage is 170 ft above sea level, from topo- graphic map. Drainage area is 18.1mi ² .	1951-93, 2002	3-18-02	25.37	*	9-30-79	e11.71	5,170
Falling Creek near Chesterfield, VA (02038000)	Lat 37°26'38" long 77°31'20", NAD83, Chesterfield County, Hydrologic Unit 02080206, on left bank 50 ft upstream from bridge on State Highway 651, 0.8 mi downstream from Licking Creek, 2.8 mi upstream from Pocoshock Creek, and 4.7 mi northwest of Chesterfield. Datum of gage is 126.39 ft above sea level. Drainage area is 32.8 mi ² .	1955-94†, 1996-02	5-10-02	5.26	124	10-1-79	15.32	5,930

* Discharge not determined.

† Operated as a continuous-record gaging station.

< Less than.

d Affected by debris jam at upstream end of culvert.

e At different datum.

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Maximum discharge at crest-stage partial-record stations during water year 2002--Continued

Station name and number	Location and drainage area	Period of record (water years)	Water year 2002 maximum		Period of record maximum			
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
JAMES RIVER BASIN--Continued								
Holiday Creek near Toga, VA (02038840)	Lat 37°25'59", long 78°41'11", NAD83, Buckingham County Hydrologic Unit 02080207, on left bank 40 ft downstream from State Forest Road 2307 (old Richmond Road), 1.8 mi upstream from confluence of North Holiday Creek, and 5.2 mi south-southwest of Toga. Datum of gage is 614.40 ft above sea level. Drainage area is 1.68 mi ² .	1971-02	5-13-02	.75	7.9	6-21-72	6.72	2,820
Flat Creek near Amelia, VA (02040500)	Lat 37°23'28", long 78°03'44", NAD83, Amelia County, Hydro- logic Unit 02080207, at bridge on State Highway 681, 0.5 mi downstream from Horsepen Creek and 6.0 mi northwest of Amelia. Elevation of gage is 240 ft above sea level, from topographic map. Drainage area is 73.0 mi ² .	1947, 1954-70, 1972-02	3-18-02	5.74	442	4-16-87	12.38	5,260
Bailey Branch tributary at Spring Grove, VA (02042250)	Lat 37°10'30", long 76°59'12", NAD83, Surry County, Hydro- logic Unit 02080206, on right upstream wingwall of culvert on State Highway 10, 1.0 mi northwest of Spring Grove. Datum of gage is 61.39 ft above sea level. Drainage area is 0.71 mi ² .	1967-02	1-20-02	2.43	10	9-16-99	8.12	474
Jordans Branch at Richmond, VA (02042400)	Lat 37°35'11", long 77°29'54", NAD83, Henrico County, Hydro- logic Unit 02080206, on left downstream wall of bridge on U.S. Highway 250 (Broad Street), at Richmond, and 2.0 mi up- stream from mouth. Drainage area is 2.53 mi ² .	1965-02	5-10-02	9.79	1,070	6-22-91	13.10	2,760
CHOWAN RIVER BASIN								
Falls Creek tributary near Victoria, VA (02044200)	Lat 37°02'05", long 78°10'25", NAD83, Lunenburg County, Hydrologic Unit 03010201, at upstream end of culvert on State Highway 49, 3.6 mi northeast of Victoria. Datum of gage is 409.21 ft above sea level. Drainage area is 0.34 mi ² .	1962-02	5-10-02	5.50	125	6-21-72	9.15	343
Blackwater River tributary near Holland, VA (02050050)	Lat 36°38'45", long 76°51'28", NAD83, Suffolk City, Hydro- logic Unit 03010202, on left upstream wingwall of culvert on State Highway 272, 3.0 mi upstream from mouth, and 4.9 mi southwest of Holland. Datum of gage is 29.25 ft above sea level. Drainage area is 2.76 mi ² .	1967-02	5-2-02	4.02	61	9-16-99	10.78	784

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			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
ROANOKE RIVER BASIN								
Powells Creek near Turbeville, VA (02075350)	Lat 36°34'51", long 79°11'19", NAD83, Halifax County, Hydro- logic Unit 03010104, at cul- vert on U.S. Highway 58, 0.8 mi upstream from mouth, 1.1 mi east of Halifax-Pittsylvania County line, and 8.8 mi southwest of Turbeville. Datum of gage is 386.76 ft above sea level. Drainage area is 0.28 mi ² .	1958-69a, 1970-02	5-3-02	3.39	6.7	7-11-65	7.86	384
Bearskin Creek near Chatham, VA (02076200)	Lat 36°50'31", long 79°29'04", NAD83, Pittsylvania County, Hydrologic Unit 03010105, on left upstream wingwall of cul- vert on State Highway 57, 4.5 mi west of Chatham, and 6 mi upstream from mouth. Eleva- tion of gage is 630 ft above sea level, from topographic map. Drainage area is 4.06 mi ² .	1967-02	-	<4.41	<249	6-29-95	19.90	2,850
Blacks Creek near Mt. Airy, VA (02076700)	Lat 36°56'41", long 79°09'55", NAD83, Pittsylvania County, Hydrologic Unit 03010105, on left upstream wingwall of culvert on State Highway 40, 1.5 mi east of Mt. Airy, and 3.5 mi upstream from mouth. Elevation of gage is 420 ft above sea level, from topo- graphic map. Drainage area is 3.44 mi ² .	1966-02	5-3-02	4.91	202	9-8-87	19.5	2,200
KANAWHA RIVER BASIN								
Mira Fork tributary near Dugspur, VA (03167300)	Lat 36°50'16", long 80°34'43", NAD83, Carroll County, Hydro- logic Unit 05050001, on left upstream wingwall of culvert on U.S. Highway 221, 1.3 mi upstream from mouth, and 2.2 mi northeast of Dugspur. Datum of gage is 2,602.96 ft above sea level. Drainage area is 0.62 mi ² .	1967-02	-	<2.92	<43.6	4-21-92	7.20	257
Thorne Springs Branch near Dublin, VA (03168750)	Lat 37°05'30", long 80°44'33", NAD83, Pulaski County, Hydro- logic Unit 05050001, at pond dam just upstream from U.S. Highway 11, 3.3 mi southwest of Dublin, and 4.3 mi up- stream from mouth. Elevation of gage is 1,975 ft above sea level, from topographic map. Drainage area is 4.77 mi ² .	1957-69a, 1970-02	9-28-02	1.18	20.6	5-28-73	8.01	2,200

< Less than.

a Records provided by U.S. Department of Agriculture, Soil Conservation Service.

f From high-water marks.

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Station name and number	Location and drainage area	Period of record (water years)	Water year 2002 maximum		Period of record maximum			
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
BIG SANDY RIVER BASIN								
Russell Fork at Council, VA (03208040)	Lat 37°04'41", long 82°03'55", NAD83, Buchanan County, Hydro- logic Unit 05070202, on left bank 50 ft upstream from bridge on State Highway 80, 750 ft downstream from Ball Creek, 0.6 mi southeast of Council, and 4.7 mi upstream from Hurricane Creek. Elevation of gage is 1,680 ft above sea level, from topographic map. Drainage area is 10.2 mi ² .	1981-83‡, 1984-02	3-18-02	5.00	797	7-29-01	8.17	1,870
North Fork Pound River at Pound, VA (03208700)	Lat 37°07'32", long 82°37'36", NAD83, Wise County, Hydrologic Unit 05070202, on right bank at Pound, 700 ft downstream from Stacy Branch, and 1,600 ft downstream from North Fork Pound River dam. Datum of gage is 1,500.00 ft above sea level. Drainage area is 18.5 mi ² . Prior to Oct. 1, 1965, at datum 44.88 ft higher.	1963-87‡, 1988-02	3-18-02	51.88	401	3-12-63	61.58	4,480
Pound River above Indian Creek, at Pound, VA (03208800)	Lat 37°07'26", long 82°36'29", NAD83, Wise County, Hydrologic Unit 05070202, on left bank at Pound, 1,600 ft down- stream from confluence of North and South Forks, 0.5 mi upstream from bridge on U.S. Highway 23, and 0.7 mi upstream from Indian Creek. Datum of gage is 1,535.64 ft above sea level. Drainage area is 36.7 mi ² .	1966-78‡, 1979-02	3-18-02	15.04	2,350	5-18-75	19.44	3,460
Pound River near Georges Fork, VA (03208900)	Lat 37°09'51", long 82°31'30", NAD83, Dickenson County, Hydrologic Unit 05070202, on right bank 50 ft upstream from bridge on State High- way 624, 150 ft upstream from Camp Creek, and 2.6 mi northwest of Georges Fork. Datum of gage is 1,470.39 ft above sea level. Drainage area is 82.5 mi ² .	1964-82‡, 1983-02	3-18-02	10.63	4,650	5-18-75	14.91	10,900
Russell Fork at Bartlick, VA (03209200)	Lat 37°14'45", long 82°19'25", NAD83, Dickenson County, Hydrologic Unit 05070202, on left bank at Bartlick just upstream from bridge on State Highway 611, 0.2 mi downstream from Pound River, and 1.1 mi upstream from Fall Branch. Datum of gage is 1,165.00 ft above sea level. Drainage area is 526 mi ² .	1963-82‡, 1983-02	3-18-02	19.15	18,900	5-2-02	27.55	50,000

‡ Operated as a continuous-record gaging station.

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BIG SANDY RIVER BASIN--Continued								
Knox Creek at Kelsa, VA (03213590)	Lat 37°27'02", long 82°03'33", NAD83, Buchanan County, Hydrologic Unit 05070201, on downstream end of right bridge pier on State Highway 697, 0.3 mi downstream from Pawpaw Creek, 0.8 mi northeast of Kelsa, and 10.0 mi upstream from mouth. Elevation of gage is 945 ft above sea level, from topographic map. Drainage area is 84.3 mi ² .	1980-81†, 1982-02	5-2-02	23.14	16,100	5-2-02	23.14	16,100
TENNESSEE RIVER BASIN								
Middle Fork Holston River at Groseclose, VA (03473500)	Lat 36°53'19", long 81°20'50", NAD83, Smyth County, Hydrologic Unit 06010102, on left bank 10 ft downstream from culvert on State Highway 679 at Groseclose, 0.2 mi upstream from Rocky Spring Branch, 10 mi northeast of Marion, and at mile 54.7. Datum of gage is 2,442.86 ft above sea level. Drainage area is 7.39mi ² .	1948-57†, 1958-87, 1988-89†, 1990-95, 2001-02	3-18-02	4.59	262	7-6-53	7.42	813
Cedar Creek near Meadowview, VA (03475600)	Lat 36°44'50", long 81°51'19", NAD83, Washington County, Hydrologic Unit 06010102, on left downstream wingwall of culvert on U.S. Highway 11, 1.2 mi south of Meadowview, and 2.5 mi upstream from mouth. Datum of gage is 2,034.66 ft above sea level. Drainage area is 3.38 mi ² .	1967-02	3-18-02	6.49	49.7	7-10-71	7.54	92
Lick Creek near Chatham Hill, VA (03487800)	Lat 36°57'44", long 81°28'21", NAD83, Smyth County, Hydro- logic Unit 06010101, on left bank 270 ft upstream from bridge on State Highway 42, 2.9 mi northeast of Chatham Hill, and 1.6 mi upstream from mouth. Datum of gage is 2,076.97 ft above sea level. Drainage area is 25.5 mi ² .	1966-68†, 1969-02	3-18-02	7.19	2,120	11-7-77	8.09	2,660
Brumley Creek at Brumley Gap, VA (03488450)	Lat 36°47'30", long 82°01'09", NAD83, Washington County, Hydrologic Unit 06010101, on left downstream wingwall of bridge of State Highway 611, 0.2 mi upstream from mouth, 0.8 mi southeast of Brumley Gap, and 2.7 mi downstream from Lee Creek. Datum of gage is 1,489.16 ft above sea level. Drainage area is 21.1 mi ² .	1979-81†, 1982-02	3-18-02	6.72	1,570	3-18-02	6.72	1,570

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TENNESSEE RIVER BASIN--Continued								
Cove Creek near Shelleys, VA (03489800)	Lat 36°39'13", long 82°21'16", NAD83, Scott County, Hydro- logic Unit 06010101, on right downstream wingwall of bridge on U.S. Highway 58 and 421, 1.5 mi northwest of Shelleys, and at mile 3.3. Datum of gage is 1,381.53 ft above sea level. Drainage area is 17.3 mi ² .	1951-02	3-18-02	6.41	1,120	3-12-63	8.40	2,500
North Fork Holston River near Gate City, VA (03490000)	Lat 36°36'31", long 82°34'05", NAD83, Scott County, Hydro- logic Unit 06010101, on left bank 75 ft upstream from bridge on U.S. Highway 23, 1.6 mi downstream from Big Mountain Creek, 2.1 mi southeast of Gate City, and at mile 8.8. Datum of gage is 1,197.56 ft above sea level. Drainage area is 672 mi ² .	1932-81†, 1982-02g	3-18-02	19.36	39,400	4-5-77 b1862	19.79 g22.5	41,000 g54,000
Clinch River at Richlands, VA (03521500)	Lat 37°05'10", long 81°46'51", NAD83, Tazewell County, Hydro- logic Unit 06010205, on right bank 1.0 mi southeast of Rich- lands, 1.6 mi downstream from Middle Creek, 2.2 mi upstream from Big Creek, and at mile 321.0. Datum of gage is 1,924.08 ft above sea level. Drainage area is 137 mi ² .	1946-89†, 1990-02	3-18-02	11.69	4,600	b6-22-1901	g21.3	g11,500
Big Cedar Creek near Lebanon, VA (03523000)	Lat 36°54'29", long 82°02'19", NAD83, (formerly published as Cedar Creek near Lebanon) Russell County, Hydrologic Unit 06010205, on right bank 200 ft upstream from bridge on U.S Highway 19 (business), 0.2 mi upstream from Roaring Spring Creek, 1.3 mi downstream from Little Cedar Creek, and 2.3 mi east of Lebanon. Datum of gage is 1,895.76 ft above sea level. Drainage area is 51.5mi ² .	1953-59†, 1960-77, 1991-94, 2001-02	3-18-02	6.93	c6,570	3-18-02	5.83	c6,570
Guest River at Coeburn, VA (03524500)	Lat 36°55'45", long 82°27'23", NAD83, Wise County, Hydrologic Unit 06010205, on right bank 30 ft downstream from bridge on State Highway 72, 1.0 mi southwest of Coeburn, 1.4 mi upstream from Jaybird Branch, 1.8 mi downstream from Pine Camp Creek, and at mile 6.3. Datum of gage is 1,935.80 ft above sea level. Drainage area is 87.3 mi ² .	1950-59†, 1960-78, 1979-81†, 1982-02	3-18-02	16.40	9,250	4-5-77	20.95	18,000

† Operated as a continuous-record gaging station.
b Maximum known historical peak outside period of record.
c Approximate.
g Records provided by Tennessee Valley Authority.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations during water year 2002--Continued

Station name and number	Location and drainage area	Period of record (water years)	Water year 2002 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
TENNESSEE RIVER BASIN--Continued								
Stony Creek at Ka, VA (03524900)	Lat 36°48'57", long 82°37'02", NAD83, Scott County, Hydro- logic Unit 06010205, at Ka, on left bank 300 ft upstream from bridge on State High- way 619, 600 ft downstream from Straight Fork, and 4.2 mi upstream from mouth. Elevation of gage is 1,510 ft above sea level, from topo- graphic map. Drainage area is 30.9 mi ² .	1981†, 1982-02	3-18-02	9.41	4,950	7-29-01	13.11	11,300
Copper Creek near Gate City, Va. (03526000)	Lat 36°40'26", long 82°33'57", NAD83, Scott County, Hydro- logic Unit 06010205, on right bank on upstream end of old bridge pier, 50 ft upstream from bridge on State Highway 619, 0.2 mi upstream from Plank Camp Creek, 1.1 mi downstream from Obeys Creek, and 2.6 mi northeast of Gate City. Datum of gage is 1,301.95 ft above sea level. Drainage area is 106 mi ² .	1948-72†, 1973-95, 1996-98†, 1999-02	3-18-02	13.48	7,520	4-5-77	13.57	7,660
North Fork Powell River at Pennington Gap VA (03530500)	Lat 36°46'26", long 83°01'59", NAD83, Lee County, Hydro- logic Unit 06010206, near right bank on downstream side of abandoned highway bridge 75 feast of U.S. Highway 421, 0.8 mi north of Pennington Gap, 1.3 mi downstream from Straight Creek, and at mile 4.7. Datum of gage is 1,363.02 ft above sea level. Drainage area is 71.4 mi ² .	1945-51†, 1952-77, 1979-81†, 1982-93, 1994-95†, 2001-02	3-18-02	15.04	14,700	4-5-77	16.14	17,000

† Operated as a continuous-record gaging station.

FOOTNOTES FOR CREST-STAGE PARTIAL-RECORD STATIONS: 2002 water year

* Discharge not determined.

† Operated as a continuous-record gaging station.

< Less than.

> Greater than.

a Records provided by U.S. Department of Agriculture, Soil Conservation Service.

b Maximum known historical peak outside period of record.

c Approximate.

d Affected by debris jam at upstream end of culvert.

e At different datum.

f From high-water marks.

g Records provided by Tennessee Valley Authority.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Special study and miscellaneous sites

Discharge measurements in the following table were made at special study and miscellaneous sites throughout the State. Data for miscellaneous sites provided by the Virginia Department of Environmental Quality - Water Division are noted by an "[a]".

Discharge measurements made at special study and miscellaneous sites during water year 2002

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
POTOMAC RIVER BASIN						
01614805 Opequon Creek	Potomac River	Lat 39°09'26", long 78°14'48", NAD83, Frederick County, at Route 622 at Opequon.	2.44	1950	6-26-01	0.91
					8-15-01	0.58
					9- 5-01	0.56
					9-26-01	0.52
					11-16-01	0.34
					3-26-02	0.39
					5- 2-02	3.25
					5-30-02	1.51
					7- 9-02	0.47
					7-30-02	0.47
01614820 Opequon Creek	Potomac River	Lat 39°07'48", long 78°13'32", NAD83, Frederick County, at old Route 628 near Opequon.	10.48	1952-54, 1963	8-15-01	2.42
					9- 6-01	2.13
					9-26-01	1.95
					11-16-01	1.53
					3-26-02	1.56
					5- 1-02	2.51
					5-29-02	3.25
					7- 9-02	1.81
					7-30-02	1.95
					01615000 Opequon Creek [b]	Potomac River
6-21-02	19.4					
7-31-02	17.3					
9-12-02	9.97					
01615515 Old Town Spring	Town Run	Lat 39°11'16", long 78°10'35", NAD83, Frederick County, at Winchester at weir.	-	-	8- 2-01	0.76
					8-15-01	0.53
					11-28-01	0.34
					3-28-02	0.38
					5- 2-02	0.45
					5-31-02	0.51
					7-10-02	0.44
					7-31-02	0.45
01615518 Town Run tributary from Shawnee Spring	Town Run	Lat 39°10'20", long 78°09'45", NAD83, Frederick County, 30 ft above confluence with Town Run, at Winchester.	-	-	8- 2-01	0.95
					8-16-01	1.26
					9- 7-01	1.16
					9-26-01	1.05
					11-28-01	0.84
					3-28-02	0.88
					5- 2-02	0.90
					5-31-02	1.13
					7-10-02	1.08
8- 1-02	0.96					
01616000 Abrams Creek [b]	Opequon Creek	Lat 39°10'40", long 78°05'09", NAD83, Frederick County, up- stream from State Highway 659, 0.9 mi upstream from mouth, and 4.4 mi east of Winchester.	16.5	1979-94†	4- 2-02	10.9
					6-21-02	9.62
					7-31-02	7.86
					9-12-02	5.86
01616075 Fay Spring	Redbud Run	Lat 39°12'18", long 78°07'50", NAD83, Frederick County, near Winchester at weir below springbox.	-	-	8- 3-01	1.23
					8-15-01	2.30
					9- 7-01	1.34
					9-26-01	0.94
					11-28-01	0.42
					3-28-02	1.07
					5- 2-02	1.91
					5-31-02	1.76
					7-11-02	1.11
					8- 1-02	1.51

† Operated as a continuous-record gaging station.

b Provided by both the U.S. Geological Survey and Virginia Department of Environmental Quality - Water Division.

Discharge measurements made at special study and miscellaneous sites during water year 2002--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
POTOMAC RIVER BASIN--Continued						
01616190 Hot Run[a]	Opequon Creek	Lat 39°14'31", long 78°06'14", NAD83, Frederick County, 200 ft upstream from railroad culvert, 0.9 mi upstream from confluence with Clearbrook Run, and at Stephenson.	0.14	1999-01	11- 6-01	.659
01616300 Opequon Creek[a]	Potomac River	Lat 39°15'53", long 78°01'58", NAD83, Clarke-Frederick Counties, at State Highway 667 ford, at Virginia-West Virginia line, 1.9 mi north- east of Brucetown, and 23.6 mi upstream from mouth.	141	-	4- 2-02 6-21-02 7-31-02 9-12-02	71.4 42.9 47.7 25.0
01620830 Briery Branch [a]	North River	Lat 38°23'57", long 79°01'23", NAD83, Rockingham County, at culverts on State Highway 748, at Spring Creek, and 0.3 mi upstream from mouth.	-	-	1-28-02	13.4
01620826 Mossy Creek [b]	North River	Lat 38°20'29", long 79°05'01", NAD83, Augusta County, at bridge on State Highway 731, 0.2 mi southeast of Mt. Solon.	-	1941, 1950-54	2-27-02 4-16-02 6-25-02 8-23-02	.000 .072 .083 .000
01620837 Big Spring [a]	Mossy Creek	Lat 38°20'29", long 79°05'07", NAD83, Augusta County, at bridge on State Highway 731, at Mt. Solon, and 0.2 mi upstream from mouth.	-	-	2-27-02 4-16-02 6-25-02 8-23-02	3.82 9.88 6.37 3.50
01620842 Mossy Creek [a]	North River	Lat 38°21'07", long 79°02'56", NAD83, Augusta County, at bridge on State Highway 613, 2.0 mi east of Mt. Solon.	-	-	6-25-02 8-23-02	15.7 11.1
01620850 Mossy Creek [a]	North River	Lat 38°23'13", long 79°00'51", NAD83, Rockingham County, at State Highway 727, 0.35 mi up- stream from mouth, and 1.5 mi southeast of Spring Creek.	-	-	1-28-02 2-27-02 4-16-02 6-25-02 8-23-02	11.8 12.2 25.1 16.2 11.2
01621320 Long Glade Creek [a]	North River	Lat 38°17'43", long 78°02'43", NAD83, Augusta County, at culvert on State Highway 613, 2.4 mi southeast of Moscow.	-	-	2-27-02 4-16-02 6-25-02 8-23-02	.000 .029 .000 .000
01621340 Long Glade Creek [a]	North River	Lat 38°22'38", long 78°58'58", NAD83, Rockingham County, at bridge on State Highway 42, 0.9 mi upstream from mouth, at Bridgewater.	-	-	2-27-02 4-16-02 6-25-02 8-23-02	.000 .026 .040 .000
016222990 Unnamed tribu- tary [a] (No. 2)	Middle River	Lat 38°07'58", long 79°13'29", NAD83, Augusta County, 150 ft downstream from Camp Shenandoah Lake, 0.4 mi upstream from mouth, and 2.0 mi southwest of Swoope.	1.33	1995-00	10-23-01	.799
01622468 Jennings Branch [a]	Middle River	Lat 38°16'57", long 79°13'46", NAD83, Augusta County, at Whites Store, 200 ft upstream from Stoutameyer Branch, and 3.5 mi northwest of Lone Fountain.	9.2	1996-00	10-23-01	.000
01624155 Moffett Creek [a]	Middle River	Lat 38°15'43", long 79°06'04", NAD83, Augusta County, at bridge on State Highway 835, 0.15 mi up- stream from Elk Run, and 2.4 mi south of Parnassus.	-	-	5-16-02 8- 9-02 9-10-02	2.37 .070 .000

a Provided by the Virginia Department of Environmental Quality - Water Division.

b Provided by both the U.S. Geological Survey and Virginia Department of Environmental Quality - Water Division.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at special study and miscellaneous sites during water year 2002--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
POTOMAC RIVER BASIN--Continued						
01624175 Elk Run [a]	Moffett Creek	Lat 38°15'45", long 79°06'21", NAD83, Augusta County, at bridge on State Highway 835, 0.2 mi upstream from mouth, and 2.3 mi south of Parnassus.	-	-	2-27-02	.247
					4-17-02	.244
					5-16-02	.339
					8- 9-02	.063
					9-10-02	.035
01624225 Moffett Creek [a]	Middle River	Lat 38°14'40", long 79°05'04", NAD83, Augusta County, at bridge on State Highway 732, at mouth, and 1.8 mi southwest of Spring Hill.	26.7	-	2-27-02	.266
					4-17-02	1.56
					9-10-02	.036
01624300 Middle River [a]	North River	Lat 38°14'36", long 79°02'07", NAD83, Augusta County, at bridge on State Highway 742, 2.7 mi downstream from Moffett Creek, and 3.2 mi northwest of Verona.	178	1967-86†	4-17-02	65.1
					5-16-02	72.1
					9-10-02	11.8
01624350 Middle River [a]	North River	Lat 38°11'25", long 78°58'26", NAD83, Augusta County, 500 ft upstream from Staunton-Verona sewage treatment plant discharge, 1,500 ft upstream from Lewis Creek, and 2.0 mi southwest of Verona.	-	1991-93, 1995, 1997-00	10-23-01	27.5
01624550 Lewis Creek [a]	Middle River	Lat 38°10'58", long 78°58'32", NAD83, Augusta County, at bridge on State Highway 612, 0.6 mi upstream from mouth, and 2.2 mi southeast of Verona.	-	-	2-26-02	7.29
					4-15-02	9.01
					5-16-02	9.48
					8- 9-02	3.40
01624880 Meadow Run [a]	Christians Creek	Lat 38°09'17", long 78°55'23", NAD83, Augusta County, 0.2 mi downstream from bridge on State Highway 254, 0.4 mi upstream from Coleytown Run, and 1.0 mi northwest of Hermitage.	11.8	1995-00	10-23-01	1.63
01624940 Unnamed tributary [a] (No. 3)	Middle River	Lat 38°14'54", long 78°57'36", NAD83, Augusta County, at Mt. Sidney-Fort Defiance sewage treatment plant, 100 ft upstream from railroad bridge, 0.3 mi downstream from culvert on U.S. Highway 11, and 0.7 mi south of Mt. Sidney	.25	1996-00	10-23-01	.083
01624960 Polecat Draft [a]	Middle River	Lat 38°13'42", long 78°53'01", NAD83, Augusta County, at bridge on State Highway 608, 0.1 mi upstream from mouth, and 1.2 mi northeast of Piedmont.	-	-	2-26-02	.000
					4-15-05	.000
					5-16-02	.000
					8- 9-02	.000
01625847 South Shenandoah River [a]	South Shenandoah River	Lat 38°01'07", long 79°01'07", NAD83, Augusta County, at Stuarts Draft sewage treatment plant, 0.8 mi downstream from bridge on State Highway 608, and 1.2 mi southeast of Stuarts Draft.	52.5	1997-01	10-11-01	3.54
					5-16-02	3.97
					9-10-02	.814
01626952 Porterfield Run [a]	South River	Lat 38°08'04", long 78°51'59", NAD83, Augusta County, 0.3 mi upstream from mouth, 0.5 mi downstream from culvert on State Highway 865, and 0.8 mi east of Madrid.	4.79	1998-01	10-23-01	.172

† Operated as a continuous-record gaging station.

a Provided by the Virginia Department of Environmental Quality - Water Division.

Discharge measurements made at special study and miscellaneous sites during water year 2002--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
POTOMAC RIVER BASIN--Continued						
Cub Run [a]	South Fork Shenandoah River	Lat 38°24'36", long 78°48'17", NAD83, Rockingham County, at bridge on State Highway 684, at Keezletown.	-	-	2-20-02	.642
					7-19-02	.457
					9- 6-02	.250
01628585 Cub Run [a]	South Fork Shenandoah River	Lat 38°23'17", long 78°48'17", NAD83, Rockingham County, at bridge on U.S. Highway 33, at Penn Laird.	-	-	2-20-02	1.09
					4-11-02	2.43
					6-24-02	.787
					7-19-02	.602
					8-26-02	.290
9- 6-02	.343					
01628590 Unnamed tribu- tary [a] (No. 2)	Cub Run	Lat 38°22'43", long 78°48'20", NAD83, Rockingham County, at Lawyer Road sewage treatment plant, 0.4 mi upstream from mouth, and 0.5 mi south of Penn Laird.	.687	1994-00	2-20-02	.000
Cub Run [a]	South Fork Shenandoah River	Lat 38°21'25", long 78°46'28", NAD83, Rockingham County, at bridge on State Highway 672, 0.6 mi southwest of Montevideo.	-	-	2-20-02	1.29
					7-19-02	.498
					9- 6-02	.311
Cub Run [a]	South Fork Shenandoah River	Lat 38°20'58", long 78°45'23", NAD83, Rockingham County, at bridge on State Highway 652, 1.1 mi southeast of Montevideo.	-	-	2-20-02	.659
Cub Run [a]	South Fork Shenandoah River	Lat 38°20'43", long 78°43'58", NAD83, Rockingham County, at bridge on State highway 651, 0.7 mi upstream from mouth, and 2.3 mi west of Island Ford.	-	-	2-20-02	.000
					7-19-02	.000
01628630 Cub Run [a]	South Fork Shenandoah River	Lat 38°20'21, long 78°43'25", NAD83, Rockingham County, at bridge on State Highway 650, at mouth, at Rocky Bar, and 2.0 mi southwest of Island Ford.	26.8	-	2-26-02	.268
					4-11-02	.976
					6-24-02	.290
					7-19-02	.154
					8-26-02	.105
9- 6-02	.113					
Quail Run [a]	Boone Run	Lat 38°24'16", long 78°42'59", NAD83, Rockingham County, at culvert on State Highway 644, 2.2 mi north of McGaheysville.	-	-	9- 6-02	.030
					9-17-02	.035
Quail Run [a]	Boone Run	Lat 38°24'18", long 78°41'59", NAD83, Rockingham County, at culvert on State Highway 646, 2.7 mi northeast of McGaheysville.	-	1983	9- 6-02	.121
9-17-02					9-17-02	.695
01629070 Quail Run [a]	Boone Run	Lat 38°24'27", long 78°40'42", NAD83, Rockingham County, at bridge on State Highway 602, 2.9 mi west of Elkton, and 3.0 mi upstream from mouth.	-	1975	2-26-02	1.15
					4-11-02	1.32
					6-24-02	.046
					8-26-02	.077
					9- 6-02	.121
9-17-02	.562					
01629935 Little Hawksbill Creek [a]	Hawksbill Creek	Lat 38°34'09", long 78°28'12", NAD83, Page County, at bridge on State Highway 626, 800 ft up- stream from Beaver Run, and 1.6 mi east of Stanley.	-	-	2-26-02	1.15
					4- 9-02	3.37
					5-29-02	4.68
					7-30-02	.272
					9-11-02	.002
0162994750 Hawksbill Creek [a]	South Fork Shenandoah River	Lat 38°37'40", long 78°28'06", NAD83, Page County, at bridge on State Highway 629, 2.6 mi south of Luray.	-	-	2-19-02	1.49
					5-29-02	9.30
					7-30-02	.870
					9-11-02	.485

a Provided by the Virginia Department of Environmental Quality - Water Division.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at special study and miscellaneous sites during water year 2002--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
POTOMAC RIVER BASIN--Continued						
01629975 East Hawksbill Creek [a]	Hawksbill Creek	Lat 38°38'40", long 78°27'07", NAD83, Page County, at bridge on State Highway 642, 1.5 mi southeast of Luray.	-	1951-54	2-19-02	8.07
					4- 9-02	13.4
01629980 East Hawksbill Creek [a]	Hawksbill Creek	Lat 38°38'55", long 78°27'13", NAD83, Page County, 0.3 mi downstream from State Highway 642, 0.8 mi upstream from mouth, and 1.2 mi southeast of Luray.	-	-	5-29-02	17.1
					7-30-02	6.67
					9-11-02	4.59
Hawksbill Creek [a]	South Fork Shenandoah River	Lat 38°40'27", long 78°27'27", NAD83, Page County, 200 ft downstream from bridge on U.S. Highway 211 bypass, 0.7 mi north of Luray.	-	1978	2-19-02	13.1
Dry Run [a]	Hawksbill Creek	Lat 38°41'13", long 78°27'18", NAD83, Page County, 20 ft down- stream from bridge on U.S. High- way 340, 1.5 mi north of Luray.	-	1963, 1978	2-19-02	.383
01630540 Hawksbill Creek [a]	South Fork Shenandoah River	Lat 38°42'29", long 78°27'23", NAD83, Page County, at bridge on State Highway 648, 0.96 mi upstream of mouth, and 3.0 mi north of Luray.	68.9	1963, 1969, 1979-79 1982	2-19-02	18.9
					4- 9-02	35.4
					5-29-02	47.3
					7-30-02	17.7
9-11-02	14.0					
01630544 Pass Run [a]	Hawksbill Creek	Lat 38°42'30", long 78°27'22", NAD83, Page County, near bridge on State Highway 648, at mouth, at Springfield, and 3.1 mi north of Luray.		1963	2-19-02	3.09
					4- 9-02	4.28
					5-29-02	18.0
					7-30-02	4.64
					9-11-02	1.29
01632530 North Fork Shenandoah River	Shenandoah River	Lat 38°38'56", long 78°42'25", NAD83, Rockingham County, 500 ft upstream from county line, 0.8 mi downstream from confluence with Plains Mill Creek, and 1.7 mi west of New Market.	-	2001	8- 7-02	22.5
01632815 Smith Creek [a]	North Fork Shenandoah River	Lat 38°28'48", long 78°46'32", NAD83, Rockingham County, at proposed Smith Creek WWTP discharge, 0.35 mi upstream from culvert on State Highway 724, and 5.5mi northeast of Harrisonburg.	6.06	2001	10-11-01	.614
					2-20-01	.382
Smith Creek [a]	North Fork Shenandoah River	Lat 38°33'26", long 78°43'55", NAD83, Rockingham County, at bridge on State Highway 608, 1.4 mi south of Tenth Legion, and 2.7 mi downstream from Lacey Spring.	-	-	2-22-02	7.77
01632870 War Branch [a]	Smith Creek	Lat 38°32'08", long 78°42'21", NAD83, Rockingham County, at H-NM KOA discharge, at Athlone, 3.2mi southeast of Tenth Legion, and 4.5 mi upsteam from mouth.	3.75	2000-01	10-11-01	.083
01633820 North Fork Shenandoah River	Shenandoah River	Lat 38°57'15", long 78°23'03", NAD83, Shenandoah County, along State Highway 648, 0.64 mi upstream from bridge on State Highway 744, 2.4 mi downstream from confluence with Posey Hollow, and 3.3 mi south of Fishers Hill.	-	2000-01	11- 5-01	87.0
					11- 6-01	83.3
					11- 7-01	74.5

a Provided by the Virginia Department of Environmental Quality - Water Division.

Discharge measurements made at special study and miscellaneous sites during water year 2002--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
POTOMAC RIVER BASIN--Continued						
01635005 Fawcett Run	Cedar Creek	Lat 39°04'58", long 78°19'21", NAD83, Frederick County, below Marlboro Spring at Marlboro.	7.26	-	8-14-01	2.81
					9- 6-01	2.70
					9-26-01	2.66
					11-16-01	2.09
					3-26-02	1.82
					4-30-02	2.54
					5-30-02	2.49
					7- 8-02	1.87
					7-30-02	1.75
01635008 Fawcett Run	Cedar Creek	Lat 39°04'44", long 78°19'36", NAD83, Frederick County, above mouth at Marlboro.	7.40	-	6-26-01	3.74
					8-14-01	2.60
					9- 6-01	2.31
					9-26-01	2.30
					11-16-01	1.90
					3-25-02	1.64
					4-30-02	2.52
					5-29-02	2.58
					7- 8-02	1.82
7-30-02	1.78					
01635070 Vaucluse Spring	Meadow Brook	Lat 39°03'45", long 78°15'37", NAD83, Frederick County, near Middletown.	-	-	8- 3-01	1.95
					8-16-01	1.98
					9-26-01	1.78
					11-27-01	1.56
					3-27-02	1.29
					5- 1-02	1.71
					5-30-02	1.65
					7- 9-02	1.44
					7-31-02	1.53
01635210 North Fork Shenandoah River	Shenandoah River	Lat 38°58'52", long 78°17'25", NAD83, Warren County, at Win- chester Dam, 1.5 mi downstre- am from confluence with Cedar Creek, and 1.1 mi northwest of Waterlick.	-	2001	5- 6-02	696
					5- 7-02	654
01636228 Crooked Run [a]	Shenandoah River	Lat 38°59'14", long 78°10'59", NAD83, Warren County, 0.7 mi upstream from bridge on State Highway 627, 0.7 mi north of Cedarville.	29.9	1997-01	11-13-01	1.52
01636240 Crooked Run [a]	Shenandoah River	Lat 38°57'22", long 78°11'52", NAD83, Warren County, 1,000 ft downstream from bridge on U.S. Highways 340 and 522, 0.6 mi north of Riverton, and 0.9 mi upstream from mouth.	-	1991-01	11-13-01	2.93
01636266 Manassas Run [a]	Shenandoah River	Lat 38°54'48", long 78°05'57", NAD83, Warren County, 100 ft upstream from bridge on State Highway 79, 1.3 mi west of Linden.	5.25	1991-99	11-13-01	.399
01643715 Cromwells Run [a]	Goose Creek	Lat 38°58'20", long 77°47'26", NAD83, Fauquier County, at culvert on U.S. Highway 50, 0.4 mi upstream from Rocky Creek, and 3.0 mi west of Middleburg.	-	-	6-26-02	3.08
					8-20-02	.000
01643720 Rocky Creek [a]	Cromwells Run	Lat 38°58'25", long 77°47'42", NAD83, Fauquier County, at culvert on U.S. Highway 50, 0.4 mi upstream from mouth, and 3.0 mi west of Middleburg.	-	-	6-26-02	.420
					8-20-02	.030

a Provided by the Virginia Department of Environmental Quality - Water Division.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at special study and miscellaneous sites during water year 2002--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
POTOMAC RIVER BASIN--Continued						
01643988 Little River [a]	Goose Creek	Lat 39°00'25", long 77°36'52", NAD83, Loudoun County, at bridge on U.S. Highway 15, 1.55 mi upstream from mouth, and 1.6 mi south of Oatlands.	47.7	1942, 1963, 1968-69, 1979-80	6-26-02	5.44
					8-20-02	.040
01644110 Sycolin Creek [a]	Goose Creek	Lat 39°04'20", long 77°31'08", NAD83, Loudoun County, at proposed Goose Creek Industrial Park WWTP discharge, 0.2 mi up- stream from mouth, and 3.8 mi southeast of Leesburg.	17.3	1993-97, 1999	11- 6-01	2.40
					6-26-02	2.23
					8-20-02	.389
01655925 Licking Run [a]	Cedar Run	Lat 38°37'15", long 77°39'29", NAD83, Fauquier County, at bridge on State Highway 616, 1.0 mi south of Calverton, and 1.4 mi upstream from mouth.	-	-	2-28-02	2.06
					4- 3-02	4.60
					5-24-02	.690
					7-10-02	1.11
					8-16-02	.749
RAPPAHANNOCK RIVER BASIN						
01661835 Unnamed tributary [a]	Hickman Run	Lat 38°45'14", long 78°06'23", NAD83, Rappahannock County, 50 ft upstream from culvert on State Highway 641, 0.8 mi southwest of Flint Hill.	0.13	1994-99,	11-13-01	.003
01661995 Carter Run [a]	Rappahannock River	Lat 38°41'57", long 77°54'25", NAD83, Fauquier County, at bridge on State Highway 688, 0.25 mi upstream from mouth, and 4.2 mi north of Jeffersonton.	-	1951-54	3-29-02	36.4
					4- 3-02	27.1
					5-21-02	13.6
					7-10-02	3.75
					8- 8-02	1.11
9-13-02	.117					
01662065 Great Run [a]	Rappahannock River	Lat 38°38'34", long 77°51'34", NAD83, Fauquier County, at bridge on State Highway 687, 1.7 mi upstream from mouth, and 1.7 mi south of Turnbull.	-	1963	3-29-02	11.1
					4- 3-02	9.97
					5-21-02	5.08
					7-10-02	2.13
					8- 8-02	1.36
9-13-02	1.33					
01662320 Thornton River [a]	Hazel River	Lat 38°39'29", long 78°13'12", NAD83, Rappahannock County, at Sperryville, 0.25 mi upstream from confluence with N.F. Thornton River, and 0.3 mi downstream from bridge on U.S. Highway 522.	10.4	1995-01	11-13-01	2.49
01663750 Muddy Run [a]	Hazel River	Lat 38°32'34", long 78°02'34", NAD83, Culpeper County, at bridge on State Highway 729, 0.75 mi upstream from Apperson Creek, and 2.4 mi northeast of Norman.	-	-	3-29-02	2.94
					5-21-02	1.61
					8- 8-02	.000
					9-13-02	.000
01663830 Muddy Run [a]	Hazel River	Lat 38°33'43", long 77°55'29", NAD83, Culpeper County, at bridge on State Highway 625, 0.9 mi up- stream from mouth, and 3.1 mi southeast of Rixeyville.	-	-	3-29-02	10.5
					5-21-02	4.91
					8- 8-02	.146
					9-13-02	.000
0166504850 Mountain Run [a]	Rappahannock River	Lat 38°27'45", long 77°58'08", NAD83, Culpeper County, at Culpeper sewage treatment plant, 800 ft upstream from bridge on U.S. Highway 29, and 1.6 mi southeast of Culpeper.	-	1999-01	10-12-01	.976

a Provided by the Virginia Department of Environmental Quality - Water Division.

Discharge measurements made at special study and miscellaneous sites during water year 2002--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
RAPPAHANNOCK RIVER BASIN--Continued						
01665220 Deep Run [a]	Rappahannock River	Lat 38°27'06", long 77°37'42", NAD83, Fauquier-Stafford County, at bridge on State Highway 615, 0.5 mi upstream from Alcotti Run, and 1.5 mi east of Goldvein.	15.4	1963, 1981-84	2-28-02	.653
					4- 3-02	2.60
					5-24-02	.950
					7-10-02	.083
					8-16-02	.000
01665228 Deep Run [a]	Rappahannock River	Lat 38°25'49, long 77°37'46", NAD83, Fauquier-Stafford County, at bridge on U.S. Highway 17, 1.7 mi upstream from mouth, and 1.9 mi southeast of Goldvein.	-	-	2-28-02	1.46
					4- 3-02	5.61
					5-24-02	1.76
					7-10 02	.070
					8-16-02	.000
01668700 Mount Landing Creek [a]	Rappahannock River	Lat 37°57'44", long 76°56'10", NAD83, Essex County, at bridge on State Highway 716, 1.7 mi north of Mount Landing, and 4.5 mi upstream from mouth.	-	-	3-14-02	6.57
					5-15-02	21.5
					6- 3-02	.697
					8-20-02	.000
YORK RIVER BASIN						
01670145 Unnamed tributary [a]	Gold Mine Creek	Lat 38°02'01", long 78°00'08", NAD83, Louisa County, 25 ft upstream from Louisa County sewage treatment plant discharge, 0.5 mi north of Louisa.	.42	1991-96	10-24-02	.057
01670300 Contrary Creek [b]	North Anna River	Lat 38°03'53", long 77°52'44", NAD83, Louisa County, at bridge on U.S. Highway 522, 1.2 mi up- stream from Lake Anna, 4.0 mi northeast of Mineral, and 5.1 mi upstream from former mouth.	5.53	1976-87† 1989-01	10-24-01	.321
01671200 South Anna River [a]	Pamunkey River	Lat 38°07'25", long 78°12'19", NAD83, Louisa County, at private bridge 0.2 mi west of Gordons- ville sewage treatment plant, 1.5 mi southwest of Gordonsville.	5.00	1991-96	11- 2-01	.001
01671270 Licking-hole Creek [a]	South Anna River	Lat 38°04'33", long 78°08'54", NAD83, Louisa County, 700 ft downstream from Izac Lake, 0.5 mi upstream from mouth, and 2.1 mi east of Boswells Tavern.	2.73	1998-01	10-24-01	.000
01671925 North-east Creek [a]	South Anna River	Lat 37°58'40", long 77°56'21", NAD83, Louisa County, at Louisa WTP discharge, 300 ft downstream from culvert on U.S. Highway 33, and 2.5 mi south of Mineral	10.1	1994-98	10-24-01	.025
01673010 Mechumps Creek [a]	Pamunkey River	Lat 37°45'31", long 77°21'52", NAD83, Hanover County, at cul- vert on U.S. Highway 301, 0.3 mi south of Hanover.	-	1976, 1983-84	3-26-02	4.24
					4- 9-02	4.67
					5-22-02	3.80
					7- 9-02	.000
					7-23-02	.000
01673600 Mata-dequin Creek [a]	Pamunkey River	Lat 37°37'03", long 77°08'16", NAD83, Hanover County, at bridge on State Highway 606, 1.3 mi upstream from mouth, and 3.2 mi northwest of Tunstall.	29.1	1980-83, 1991	3-15-02	11.4
					4- 9-02	12.2
					5-22-02	8.76
					7- 9-02	1.01
					7-23-02	.651

† Operated as a continuous-record gaging station.

a Provided by the Virginia Department of Environmental Quality - Water Division.

b Provided by both the U.S. Geological Survey and Virginia Department of Environmental Quality - Water Division.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at special study and miscellaneous sites during water year 2002--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
YORK RIVER BASIN--Continued						
01674160 Polecat Creek [a]	Mattaponi River	Lat 37°58'09", long 77°32'19", NAD83, Caroline County, 150 ft downstream from culvert on State Highway 601, 0.7 mi northeast of Cedar Fork, and 2.1 mi west of Golansville.	1.15	1994-01	10- 3-01	.002
					12- 6-01	.000
					2-11-02	.130
					4- 4-02	.170
					6-19-02	.008
8- 7-02	.000					
01674172 Polecat Creek [a]	Mattaponi River	Lat 37°58'13", long 77°29'12", NAD83, Caroline County, 150 ft upstream from bridge on State Highway 652, 0.5 mi upstream from Stevens Mill Run, and 1.1 mi southeast of Golansville.	10.8	1994-01	10- 3-01	.075
					12- 6-01	.235
					2-11-02	1.83
					4- 4-02	1.88
					6-19-02	.000
8- 7-02	.000					
01674174 Stevens Mill Run [a]	Polecat Creek	Lat 37°59'20", long 77°29'49", NAD83, Caroline County, 100 ft downstream from bridge on State Highway 601, 0.6 mi north of Golansville, 0.8 mi downstream from Lake Caroline, and 1.6 mi upstream from mouth.	9.50	1994-01	10- 3-01	.193
					12- 6-01	.149
					2-11-02	.370
					4- 4-02	.160
					6-19-02	.400
8- 7-02	.040					
01674180 Polecat Creek [a]	Mattaponi River	Lat 37°57'20", long 77°22'07", NAD83, Caroline County, 200 ft upstream from bridge on State Highway 601, 0.25 mi southeast of Penola, and 2.2 mi upstream from mouth.	48.3	1994-01	10- 3-01	1.39
					12- 6-01	2.38
					2-11-02	11.7
					4- 4-02	10.8
					6-19-02	.890
8- 7-02	.000					
JAMES RIVER BASIN						
02012500 Jackson River	James River	Lat 37°52'36", long 79°58'38", NAD83, Alleghany County, at Smith Bridge, 0.8 mi south of Falling Spring, and 1.6 mi down- stream from Falling Spring.	411	1925-84†, 1985-00	10- 3-01	212
02012993 Ogle Creek [a]	Dunlap Creek	Lat 37°48'48", long 80°05'27", NAD83, Alleghany County, 0.9 mi upstream from Thorny Branch, 1.0 mi west of Callaghan, and 1.7 mi upstream from mouth.	25.6	2001	10- 5-01 11-14-01	.426 .498
02018810 Crooked Run [a]	North Fork	Lat 37°30'44", long 79°55'39", NAD83, Botetourt County, at Camp Fincastle Lake outfall, 0.3 mi downstream from Woodville Spring, and 2.8 mi northwest of Fincastle.	1.09	1998-01	10-22-01	.477
02019480 Looney Creek [a]	James River	Lat 37°30'58", long 79°42'33", NAD83, Botetourt County, at bridge on State Highway 625, 500 ft upstream from Long Run, 0.4 mi upstream from mouth, and 1.8 mi west of Buchanan.	-	-	4-12-02 6- 3-02 7-25-02 9- 4-02	10.7 5.15 3.52 1.93
02019485 Long Run [a]	Looney Creek	Lat 37°31'02", long 79°42'34", NAD83, Botetourt County, at bridge on State Highway 625, 400 ft upstream from mouth, and 1.8 mi west of Buchanan.	-	-	4-12-02 6- 3-02 7-25-02 9- 4-02	.142 .035 .000 .000
02021080 Alum Creek [a]	Brattons Run	Lat 37°54'36", long 79°36'26", NAD83, Rockbridge County, 300 ft south of State Highway 633, 1.2 mi upstream from mouth, and 4.6 mi south of Millboro.	3.21	1992-98	11-14-01	.157

† Operated as a continuous-record gaging station.

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Discharge measurements made at special study and miscellaneous sites during water year 2002--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
JAMES RIVER BASIN--Continued						
02021110 Brattons Run [a]	Calfpasture River	Lat 37°58'07", long 79°30'16", NAD83, Rockbridge County, 200 ft upstream from bridge on State Highway 39, 0.7 mi southwest of Goshen.	28.9	1991-99	11-14-01	1.21
02021670 Cedar Creek [a]	Cedar Grove Branch	Lat 37°53'32", long 79°18'48", NAD83, Rockbridge County, 1.6 mi northwest of Fairfield, 1.9 mi upstream from culverts on State Highway 712, and 3.3 mi upstream from mouth.	1.75	1998-01	10- 9-01	.181
02023410 Marlbrook Creek [a]	South River	Lat 37°52'59", long 79°16'56", NAD83, Rockbridge County, 30 ft upstream from culvert on U.S. Highway 11, and 500 ft downstream from culvert on State Highway 613, at Fairfield.	1.38	1998-01	10- 9-01	.172
02024760 Reed Creek [a]	James River	Lat 37°30'10", long 79°24'06", NAD83, at bridge on State Highway 637, 0.3 mi upstream from Meadow Creek, 3.0 mi southwest of Big Island, and 4.9 mi upstream from mouth.	7.46	1981-84	3-11-02 4-12-02 6- 3-02 7-25-02 9- 4-02	4.52 5.02 2.43 .644 .471
02024765 Meadow Creek [a]	Reed Creek	Lat 37°30'13", long 79°24'09", NAD83, Bedford County, at bridge on State Highway 637, 0.3 mi upstream from mouth, and 3.0 mi southwest of Big Island.	-	-	3-11-02 4-12-02 6- 3-02 7-25-02 9- 4-02	1.93 3.01 1.34 .466 .243
02025850 Ivy Creek [a]	Blackwater Creek	Lat 37°23'37", long 79°18'34", NAD83, Bedford County, 100 ft downstream from Ivy Hill Lake, 2.1 mi upstream from State Highway 662, and 2.7 mi northeast of Norwood.	9.68	1994-01	11- 8-01	.908
02025890 Unnamed tributary [a]	Tussocky Creek	Lat 37°17'56", long 79°09'03", NAD83, Campbell County, at Evergreen Mobile Home Park, 1.0 mi upstream from confluence with tributary from Willow Lake, and 2.8 mi southeast of City Farm.	0.20	1996-01	11- 8-01	.000
02025970 Wreck Island Creek [a]	James River	Lat 37°28'53", long 78°53'42", NAD83, Appomattox County, 50 ft upstream from Appomattox Lime Company discharge, 2.0 mi downstream from bridge on State Highway 683, and 3.0 mi south of Riverville.	56.1	1993-94, 1996-99, 2001	11-15-01	11.6
02028480 Unnamed tributary [a]	South Fork Rockfish River	Lat 37°54'16", long 78°28'49", NAD83, Nelson County, 200 ft upstream from Wintergreen Mountain sewage treatment plant, 2.8 mi northeast of Love.	.34	1993-98	10-30-01	.025
02030400 Turpin Creek [a]	Slate River	Lat 37°34'20", long 78°28'49", NAD83, Buckingham County, at Buckingham Medium Security Institute #3 discharge, 1.5 mi upstream from Peyton Creek, and 2.0 mi northwest of Dillwyn.	1.32	1994-01	10-29-01	.105

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DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at special study and miscellaneous sites during water year 2002--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
JAMES RIVER BASIN--Continued						
02030760 North Creek [a]	South Creek	Lat 37°45'28", long 78°15'01", NAD83, Fluvanna County, 100 ft upstream from Fork Union Military Academy sewage treatment plant, at bridge on State Highway 652, and 0.8 mi southeast of Fork Union.	2.00	1990-01	10-29-01	.107
02033390 Biscuit Run [a]	Moore's Creek	Lat 37°59'58", long 78°31'08", NAD83, Albemarle County, at Southwood Mobile Home Park discharge, 1.1 mi upstream from Interstate Highway 64, 0.8 mi south of Charlottesville City limits and 1.3 mi upstream from mouth.	12.6	1994-01	10-29-01	.928
02033495 Moore's Creek [a]	Rivanna River	Lat 38°01'08", long 78°27'38", NAD83, Albemarle County, at Regional sewage treatment plant, 0.4 mi upstream from mouth, and 0.6 mi downstream from Charlottesville city boundary.	34.6	1999-01	11- 2-01	4.25
02033570 Shadwell Creek [a]	Rivanna River	Lat 38°01'14", long 78°25'26", NAD83, Albemarle County, a Ramada Inn discharge, 0.3 mi upstream from bridge on U.S. Highway 250, and 1.6 mi west of Shadwell.	0.624	1997-01	10-29-01	.030
02033710 Carroll Creek [a]	Rivanna River	Lat 38°00'18", long 78°21'31", NAD83, Albemarle County, at Keswick sewage treatment plant, 100 ft upstream from culvert under I-64, 1.2 mi south of Keswick, and 2.5 mi upstream from mouth.	2.06	2000-01	10-29-01	.000
02033800 Mechunk Creek [a]	Rivanna River	Lat 37°59'04", long 78°18'43", NAD83, Fluvanna County, at bridge on State Highway 250, 5.0 mi west of Zion Crossroads.	49.2	1941, 1951-54, 1963, 1994-99	10-29-01	.260
0203668775 Tuckahoe Creek [a]	James River	Lat 37°34'09", long 77°38'10", NAD83, Goochland-Henrico County line, 0.2 mi upstream from mouth, and 2.2 mi south of Tuckahoe Village.	-	-	4- 4-02 5-22-02 7- 9-02 7-23-02	21.8 21.7 .121 .017
02038730 Fourmile Creek [b]	James River	Lat 37°27'17", long 77°19'52", NAD83, Henrico County, at bridge on Doran Road, 0.2 mi upstream from confluence with Ross Run, and 3.7 mi east of Richmond Heights.	4.01	1980-82, 1997-98	3-15-02 4- 9-02 5-22-02 7- 9-02	.597 .650 .390 .075
0203873175 Fourmile Creek [a]	James River	Lat 37°25'21", long 77°18'31", NAD83, Henrico County, at bridge on Kingsland Road, 200 ft downstream from Griggs Pond, and 5.0 mi southeast of Richmond Heights.	-	-	3-15-02 4- 9-02 5-22-02 7- 9-02	3.48 4.43 1.93 .267

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b Provided by both the U.S. Geological Survey and Virginia Department of Environmental Quality - Water Division.

Discharge measurements made at special study and miscellaneous sites during water year 2002--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
JAMES RIVER BASIN--Continued						
02041125 Long Branch [a]	Winticomack Creek	Lat 37°12'59", long 77°47'27", NAD83, Amelia County, at culvert on State Highway 600, 1.3 mi west of Ammon, and 1.9 mi up- stream from mouth.	-	-	4-17-02	.452
					5-23-02	.172
					7- 8-02	.000
02041130 Wintico- mack Creek [a]	Appomattox River	Lat 37°15'14", long 77°49'19", NAD83, Amelia County at bridge on State Highway 622, 1.2 mi upstream from mouth, and 4.6 mi east of Mannboro.	-	-	4- 4-02	10.9
					4-17-02	3.04
					5-23-02	.532
					7- 8-02	.000
02041150 Winter- pock Creek [b]	Lake Chesdin	Lat 37°21'39", long 77°42'55", NAD83, Chesterfield County, at State Highway 664, 1.2 mi north of Winterpock, and 4.1 mi up- stream from Surline Branch.	3.77	1981-84	4-17-02	.343
					5-23-02	.020
					7- 8-02	.000
02041160 Winter- pock Creek [a]	Lake Chesdin	Lat 37°19'51", long 77°43'39", NAD83, Chesterfield County, at State Highway 602, 1.1 mi south of Winterpock, and 3.2 mi up- stream from mouth.	-	-	7- 8-02	.000
02041700 Cattail Run [a]	Appomattox River	Lat 37°12'59", long 77°26'38", NAD83, Dinwiddie County, at Petersburg, 500 ft upstream from U.S.Highway 1 and 460, and 0.7 mi upstream from mouth.	8.61	1993-99, 2001	10-22-01	.711
02042455 White Oak Swamp [b]	Chickahominy River	Lat 37°28'06", long 77°12'31", NAD83, Henrico County, at bridge on State Highway 156, at Elko.	23.6	1984-85, 1987-89, 1991, 1995-98	3-15-02	4.90
					4- 9-02	6.38
					5-22-02	4.15
					7- 9-02	.086
					7-23-02	.000
CHOWAN RIVER BASIN						
02044405 Hurricane Branch [a]	Nottoway River	Lat 37°03'39", long 77°58'47", NAD83, Nottoway County, at bridge on State Highway 643 1.6 mi southeast of Blackstone.	5.61	2000-01	10-24-01	.170
02044410 Unnamed tribu- tary [a]	Hurricane Branch	Lat 37°02'28", long 77°57'18", NAD83, Nottoway County, at Fort Picket sewage treatment plant, 1.0 mi upstream from mouth, and 3.5 mi southeast of Blackstone.	-	2000-01	11-24-01	.275
					6-20-02	.294
					8-21-02	.000
02045275 Unnamed tribu- tary [a]	Sturgeon Creek	Lat 36°51'36", long 77°50'04", NAD83, Brunswick County, 0.7 mi upstream from culvert on State Highway 642, 2.4 mi upstream from mouth, and 2.8 mi east of Alberta.	1.68	1998-99, 2001	10-22-01	.018
02051625 Roses Creek [a]	Great Creek	Lat 36°48'44", long 77°52'56", NAD83, Brunswick County, at bridge on State Highway 646, 3.5 mi south of Alberta, and 6.7 mi upstream from mouth.	-	-	4-16-02	1.30
					6- 4-02	.489
					7-17-02	.098
					8- 6-02	.083

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DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at special study and miscellaneous sites during water year 2002--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
CHOWAN RIVER BASIN--Continued						
02051715	Great Creek	Lat 36°44'57", long 77°50'15",	-	-	4-16-02	8.16
Roses		NAD83, Brunswick County, at			6- 4-02	2.07
Creek [a]		bridge on U.S. Highway 58, 0.4			7-17-02	.377
		mi upstream from mouth, and			8- 6-02	.240
		0.7 mi southeast of Lawrenceville.				
ROANOKE RIVER BASIN						
02054190	North Fork	Lat 37°11'23", long 80°21'30",	-	-	6-20-02	2.97
Wilson	Roanoke	NAD83, Montgomery County, at			8- 7-02	1.33
Creek [a]	River	bridge on State Highway 603 at				
		Ellett, 400 ft downstream from				
		Cedar Run, and 0.4 mi upstream				
		from mouth.				
02054660	Roanoke River	Lat 37°21'55", long 80°03'04",	29.7	1993,	10-22-01	.000
Mason		NAD83, Roanoke County, at		1999-01		
Creek [a]		Roanoke Moose Lodge sewage				
		treatment plant, 50 ft west				
		of State Highway 311, and				
		0.9 mi west of Bennett Springs.				
02055515	Tinker Creek	Lat 37°16'20", long 79°56'07",	5.00	1994-00	10-22-01	4.97
Lick		NAD83 Roanoke City, along			6- 5-02	5.54
Run [a]		Norfolk Avenue, 300 ft down-			8-30-02	5.10
		stream from U.S. Highway 220,				
		and 1.0 upstream from mouth.				
0205551610	Roanoke River	Lat 37°16'43", long 79°57'15",	-	-	4-25-02	32.3
Tinker		NAD83, Roanoke City, at bridge			6- 5-02	19.4
Creek [a]		on Wise Avenue, 0.2 mi upstream			8-30-02	19.2
		from Glade Creek, and 1.0 mi				
		west of Vinton.				
02055520	Tinker Creek	Lat 37°16'45", long 79°54'26",	32.9	1968	4-25-02	12.2
Glade		NAD83, Roanoke County, at			6- 5-02	8.54
Creek [a]		bridge on Walnut Avenue, at			8-30-02	7.73
		Vinton, and 0.2 mi upstream				
		from mouth.				
02056800	Blackwater	Lat 37°00'39", long 80°02'52",	22.2	1995,	10-23-01	3.71
South Fork	River	NAD83, Franklin County, at		1997-99		
Blackwater		at Callaway Elementary School				
River [a]		sewage treatment plant discharge,				
		and 400 ft downstream from				
		bridge on State Highway 641.				
02057695	Powder Mill	Lat 37°00'33", long 79°53'28",	-	1998-99	10-23-01	.005
Unnamed	Creek	NAD83, Franklin County, at				
tribu-		Rocky Mount, 800 ft east of				
tary [a]		Main Street, and 0.25 mi				
		upstream from culvert on				
		State Street.				
02063780	Falling River	Lat 37°16'25", long 79°05'57",	.158	1999-01	11-15-01	.035
Mollys		NAD83, Campbell County, at				
Creek [a]		Rustburg sewage treatment				
		plant, and 0.28 mi south of				
		inter-section of U.S.				
		Highway 501 and State Highway				
		24, at Rustburg.				
02066455	Roanoke Creek	Lat 37°01'58", long 78°33'50",	-	1978	7- 3-02	.370
Ash		NAD83, Charlotte County, at			8-22-02	.172
Camp		culvert on State Highway 654,				
Creek [a]		1.1 mi southwest of Eureka, and				
		2.6 mi upstream from mouth.				

a Provided by the Virginia Department of Environmental Quality - Water Division.

Discharge measurements made at special study and miscellaneous sites during water year 2002--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
ROANOKE RIVER BASIN--Continued						
02066520 Twittys Creek [a]	Roanoke Creek	Lat 36°59'23", long 78°36'12", NAD83, Charlotte County, at Drakes Branch sewage treat- ment plant discharge, at Drakes Branch, 0.25 mi downstream from bridge on State Highway 47.	22.7	1995, 1997	7- 3-02	.275
					8-22-02	.397
02066525 Twittys Creek [a]	Roanoke Creek	Lat 36°55'43", long 78°39'41", NAD83, Charlotte County, at bridge on State Highway 637, at Saxe, and 0.3 mi upstream from mouth.	-	-	7- 3-02	.261
					8-22-02	.070
02067250 Difficult Creek [a]	John H. Kerr Reservoir	Lat 36°45'14", long 78°42'27", NAD83, Halifax County, at bridge on State Highway 716, 0.2 mi downstream from Wilmouth Branch, and 1.8 mi northeast of Dryburg.	-	-	4-16-02	19.5
					5-30-02	7.17
					7-16-02	5.56
					8-21-02	.021
02073420 Mill Creek [a]	Leatherwood Creek	Lat 36°41'22", long 79°44'34", NAD83, Henry County, at Piedmont Estates lagoon discharge, 1.2 mi upstream from mouth, and 2.7 mi northwest of Axton.	4.50	2001	10-23-01	.576
0207509125 Unnamed tribu- tary [a]	Hogans Creek	Lat 36°32'31", long 79°22'21", NAD83, Pittsylvania County, at Goodyear Tire and Rubber plant discharge, 0.4 mi up- stream from bridge on State Highway 736, 1.1 mi southeast of Danville City limits, and 1.5 mi upstream from mouth.	0.89	1994-95, 1997-01	10-24-01	.046
02075191 Cane Creek [a]	Dan River	Lat 36°36'00", long 79°19'33", NAD83, Pittsylvania County, 0.3 mi downstream from bridge on State Highway 730, and 1.7 mi west of Ringgold.	3.94	1997-99, 2001	10-28-01	.823
02075600 Birch Creek [b]	Dan River	Lat 36°42'12", long 79°13'02", NAD83, Pittsylvania County, at bridge on State Highway 729, 1.2 mi downstream from Gunther Branch, and 2.9 mi west of Birch.	19.8	1981-84	4-16-02	6.17
					5-30-02	2.92
					7-16-02	.621
					8-21-02	.083
02075700 Birch Creek [a]	Dan River	Lat 36°40'20", long 79°03'39", NAD83, Halifax County, at bridge on State Highway 659, 0.9 mi upstream from mouth, and 2.8 mi northwest of Paces.	-	-	4-16-02	19.7
					5-30-02	10.8
					7-16-02	2.16
					8-21-02	.021
02076100 Wet Sleeve Creek [a]	Banister River	Lat 36°46'18", long 79°32'51", NAD83, Pittsylvania County, 0.4 mi downstream from bridge on State Highway 815, 1.3 mi upstream from mouth, and 2.8 mi northeast of Swansonville.	3.75	1993-95, 1997-99, 2001	10-24-01	.568
02076280 Dry Fork [a]	White Oak Creek	Lat 36°44'40", long 79°23'47", NAD83, Pittsylvania County, at Vulcan Materials Company, discharge 0.6 mi south of Dry Fork, and 0.7 mi upstream from bridge on State Highway 718.	2.42	1994-95, 1997-99, 2001	10-24-01	.035

a Provided by the Virginia Department of Environmental Quality - Water Division.

b Provided by both the U.S. Geological Survey and Virginia Department of Environmental Quality - Water Division.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at special study and miscellaneous sites during water year 2002--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
ROANOKE RIVER BASIN--Continued						
02079666 Flat Creek [a]	Roanoke River	Lat 36°42'04", long 78°07'55", NAD83, Mecklenburg County, above new STP discharge, 0.3 mi upstream from State Highway 642, and 1.7 mi south of South Hill.	-	-	4-11-02	.439
0207966605 Flat Creek [a]	Roanoke River	Lat 36°41'48", long 78°07'54", NAD83, Mecklenburg County, downstream side of STP discharge, at bridge on State Highway 642, and 2.0 mi south of South Hill.	-	1977	4-11-02 6- 4-02 7-17-02 8- 6-02	1.52 1.57 1.66 1.58
0207966620 Flat Creek [a]	Roanoke River	Lat 36°39'29", long 78°09'22", NAD83, Mecklenburg County, at culvert on State Highway 631, 1.6 mi east of Smiths Crossroads.	-	1977	4-11-02 6- 4-02 7-17-02 8- 6-02	5.44 1.80 .165 .095
0207966625 Flat Creek [a]	Roanoke River	Lat 36°37'56", long 78°10'16", NAD83, Mecklenburg County, at bridge on State highway 630, 2.0 mi southeast of Smiths Crossroads, and 2.3 mi upstream from mouth.	-	1977	4-11-02 6- 4-02 7-17-02 8- 6-02	8.78 1.96 .007 .025
0207966630 Parham Creek [a]	Flat Creek	Lat 36°38'50", long 78°08'52", NAD83, Mecklenburg County, at State Highway 629, 2.2 mi east of Smiths Crossroads.	-	-	4-11-02 6- 4-02 7-17-02 8- 6-02	1.28 .300 .057 .021
KANAWHA RIVER BASIN						
03171170 Crab Creek [a]	New River	Lat 37°09'26", long 80°28'14", NAD83, Montgomery County, at Town of Christiansburg old discharge, 200 ft upstream from culvert on State Highway 660, and 3.9 mi northwest of Christiansburg.	13.8	1997-00	4-24-02 6-20-02 8- 7-02	4.07 4.10 2.80
03171215 Stroubles Creek [a]	New River	Lat 37°11'58", long 80°27'00", NAD83, Montgomery County, at bridge on State Highway 657, 2.3 mi east of Prices Fork, and 6.69 mi upstream from mouth.	-	-	4-24-02 6-20-02 8- 7-02	2.85 3.23 .636
03171220 Stroubles Creek [a]	New River	Lat 37°11'02", long 80°30'03", NAD83, Montgomery County, at bridge on State Highway 705, 0.35 mi upstream from Slate Branch, 2.41 mi upstream from mouth, and 5.0 mi northeast of Radford.	-	-	6-20-02 8- 7-02	3.38 .545
03171225 Slate Branch [a]	Stroubles Creek	Lat 37°10'45", long 80°29'52", NAD83, Montgomery County, at bridge on State Highway 705, 0.5 mi upstream from mouth, and 6.0 mi northwest of Christiansburg.	-	-	6-20-02 8- 7-02	1.08 .327
03171350 Back Creek [a]	New River	Lat 37°10'01", long 80°42'07", NAD83, Pulaski County, at bridge on State Highway 100, 1.2 mi downstream from Carper Branch, and 1.5 mi west of Highland.	-	-	4-23-02 6-19-02 8-13-02	8.58 3.25 2.01

a Provided by the Virginia Department of Environmental Quality - Water Division.

Discharge measurements made at special study and miscellaneous sites during water year 2002--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
KANAWHA RIVER BASIN--Continued						
03171405 Back Creek [a]	New River	Lat 37°12'10", long 80°36'41", NAD83, Pulaski County, at bridge on State Highway 600, at Parrott, and 0.3 mi downstream from Neck Creek.	-	-	4-23-02	14.6
					6-19-02	5.09
					8-13-02	3.07
03177710 Bluestone River [b]	New River	Lat 37°16'17", long 81°18'17", NAD83, Tazewell County, at bridge on State Highway 717, 0.3 mi upstream from Brush Fork, and 0.4 mi southeast of Falls Mills.	44.2	1981-95†	4-24-02	38.2
					6-19-02	21.0
					8-15-02	9.91
BIG SANDY RIVER BASIN						
03208368 Spring Fork [a]	Open Fork	Lat 37°02'59", long 82°21'36", NAD83, Dickenson County, 400 ft upstream from confluence with Open Fork, 1.6 mi south- east of Nora.	5.18	1998-00	10- 3-01	1.59
03208700 North Fork Pound River	Pound River	Lat 37°07'32", long 82°37'36", NAD83, Wise County 700 ft downstream from Stacy Branch, 1,600 ft downstream from North Fork Pound River dam, and at Pound.	18.5	1963-01	1-16-02	20.2
					1-16-02	21.1
					8-30-02	3.79
03208800 Pound River	Russell Fork	Lat 37°07'26", long 82°36'29", NAD83, Wise County, 1,600 ft downstream from confluence of North and South Forks, 0.5 mi upstream from U.S. Highway 23, 0.7 mi upstream from Indian Creek, and at Pound.	36.7	1966-81, 1984-01,	11- 6-01	19.0
					1-10-02	13.4
03208900 Pound River	Russell Fork	Lat 37°09'51", long 82°31'30", NAD83, Dickenson County, 50 ft upstream from State Highway 624, 150 ft upstream from Camp Creek, and 2.6 mi northwest of Georges Fork.	82.5	1964-01,	10- 2-01	26.2
					2-20-02	78.5
0320890475 Laurel Creek [a]	Georges Fork	Lat 37°08'02", long 82°29'25", NAD83, Dickenson County, 1.1 mi south of Georges Fork, 1.4 mi upstream from mouth.	.189	1997-00	10- 3-01	.021
0320890485 Georges Fork [a]	Pound River	Lat 37°09'01", long 82°29'25", NAD83, Dickenson County, 50 ft downstream from Laurel Creek, 300 ft downstream from bridge on State Highway 83, and 0.2 mi northwest of Georges Fork.	5.57	1994-00	10- 3-01	1.80
03209200 Russell Fork	Levisa Fork	Lat 37°14'45", long 82°19'25", NAD83, Dickenson County, at bridge on State Highway 611, 0.2 mi downstream from Pound, River, and at Bartlick.	526	1963-01,	10- 2-01	84.5
					10- 2-01	93.0
					11 -6-01	152

† Operated as a continuous-record gaging station.

a Provided by the Virginia Department of Environmental Quality - Water Division.

b Provided by both the U.S. Geological Survey and Virginia Department of Environmental Quality - Water Division.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at special study and miscellaneous sites during water year 2002--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
TENNESSEE RIVER BASIN						
03473840 Unnamed tributary [a]	Hungry Mother Creek	Lat 36°52'20", long 81°30'41", NAD83, Smyth County, at Hungry Mother State Park Campground D sewage treatment plant, 400 ft downstream from bridge on park road, and 2.7 mi north of Marion.	2.17	1993-96,	10- 1-01	.317
03474700 Hutton Creek [b]	Middle Fork Holston River	Lat 36°47'03", long 81°44'04", NAD83, Washington County, at bridge on U.S. Highway 11, 3.2 mi west of Chilhowie.	8.32	1969, 1972, 1990, 1992, 2000	6-17-02 8-13-02 9-24-02	1.71 .533 .462
03474705 Unnamed tributary [a] (No. 2)	Hutton Creek	Lat 36°47'02", long 81°44'03", NAD83, Washington County, 200 ft downstream from bridge on U.S. Highway 11, on left bank, and 3.3 mi west of Chilhowie.	-	-	6-17-02 8-13-02 9-24-02	2.45 1.66 1.48
03474720 Hutton Creek [b]	Middle Fork Holston River	Lat 36°46'22", long 81°43'48", NAD83, Washington County, at old Huff Airport road, 0.26 mi upstream from mouth, and 2.3 mi southwest of Chilhowie.	11.0	1987-89, 2000	4-23-02 6-17-02 8-13-02 9-24-02	12.0 5.64 3.44 3.04
03474800 Hall Creek [b]	Byers Creek	Lat 36°45'49", long 81°48'14", NAD83, Washington County, at bridge on U.S. Highway 11, 1.4 mi west of Old Glade Spring.	7.9	1969, 1972, 1990, 1992, 2000	4-23-02 6-17-02 8-13-02 9-24-02	9.92 5.08 3.72 3.31
03474860 Tattle Branch [a]	Hall Creek	Lat 36°44'40", long 81°47'47", NAD83, Washington County, at bridge on State Highway 736, 600 ft upstream from mouth, and 2.0 mi south of Old Glade Spring.	-	2000	4-23-02 6-17-02 8-13-02 9-24-02	2.28 1.16 .551 .871
03474905 Byers Creek [a]	Middle Fork Holston River	Lat 36°44'16", long 81°47'50", NAD83, Washington County, at private bridge along State High- way 736, 0.2 mi upstream from mouth, and 2.5 mi southwest of Old Glade Spring.	-	2000	4-23-02 6-17-02 8-13-02 9-24-02	17.1 8.43 5.72 6.18
03475595 East Fork Cedar Creek [a]	Cedar Creek	Lat 36°44'58", long 81°51'25", NAD83, Washington County, at Meadowview Elementary School sewage treatment plant, 0.1 mi north of Cedarville.	-	1995, 1997-00	10-01-01 4-23-02 6-17-02 8-14-02 9-24-02	.436 .964 .525 .472 .338
03475602 Cedar Creek [b]	Middle Fork Holston River	Lat 36°42'53", long 81°49'50", NAD83, Washington County, at bridge on State Highway 706, at mouth, and 2.6 mi south of Cedarville.	-	1987-89, 2000	4-23-02 6-17-02 8-14-02 9-24-02	7.95 2.99 2.07 2.00
03489860 Hilton Creek [a]	North Fork Holston River	Lat 36°39'12", long 82°27'50", NAD83, Scott County, at Hilton Elementary School sewage treat- ment plant discharge, 0.2 mi southeast of Hilton, and 0.4 mi upstream from mouth.	1.05	1993-95, 1997-99	10- 2-01	.090

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b Provided by both the U.S. Geological Survey and Virginia Department of Environmental Quality - Water Division.

Discharge measurements made at special study and miscellaneous sites during water year 2002--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
TENNESSEE RIVER BASIN--Continued						
03489867 Unnamed tribu- tary [a] (No. 8)	North Fork Holston River	Lat 36°38'24", long 82°29'33", NAD83, Scott County, at Brick- yard Gap, 300 ft upstream from bridge on State Highway 896, 0.3 mi upstream from mouth, and 1.7 mi southwest of Hilton.	3.02	1998-99	10- 2-01	.010
03489950 Unnamed tribu- tary [a] (No. 1)	Little Moccasin Creek	Lat 36°38'13", long 82°40'00", NAD83, Scott County, 400 ft upstream from culvert on State Highway 870, 600 ft upstream from mouth, and 3.1 mi northeast of Kermit.	.20	1996-00	10- 2-01	.046
03490020 Cate Branch [a]	Possum Creek	Lat 36°36'58", long 82°37'47", NAD83, Scott County, at Yuma Elementary School sewage treat- ment plant, 300 ft upstream from culvert on State Highway 713, and 0.9 mi west of Yuma.	.42	1993-00	10- 2-01	.013
03520375 Clinch River [a]	Tennessee River	Lat 37°07'44", long 81°32'59", NAD83, Town of Tazewell, at bridge on State Highway Alt. 16, 0.8 mi west of Tazewell.	-	1980	4-24-02 6-19-02 8-15-02	27.7 15.6 7.82
03521500 Clinch River [b]	Tennessee River	Lat 37°05'10", long 81°46'51", NAD83, Tazewell County, 1.0 mi southeast of Richlands, 1.6 mi downstream from Middle Creek, 2.2 mi upstream from Big Creek, and at mile 321.0.	137	1946-89†	4-24-02 6-19-02 8-15-02	111 42.4 22.0
03522595 Lewis Creek [a]	Clinch River	Lat 37°00'28", long 81°58'12", NAD83, Russell County, at Honaker sewage treatment plant, 0.2 mi upstream from bridge on State Highway 653, and 0.7 mi south of Honaker.	20.8	1993-97	4-24-02 6-19-02 8-14-02	25.1 4.66 1.48
03523050 Big Cedar Creek [b]	Clinch River	Lat 36°55'19", long 82°03'09", NAD83, Russell County, at Lebanon sewage treatment plant discharge, 200 ft downstream from Little Cedar Creek, and 2.1 mi northeast of Lebanon.	-	1993-00	10- 3-01	16.4
03524018 Hurricane Fork [a]	Dumps Creek	Lat 36°59'06", long 82°10'57", NAD83, Russell County, 0.6 mi downstream from Laurel Branch, 1.1 mi upstream from mouth, and 1.6 mi north of South Clinchfield.	10.3	1995-00	10- 3-01	.459
03524025 Dumps Creek [a]	Clinch River	Lat 36°57'23", long 82°10'45", NAD83, Russell County, 300 ft downstream from Millstone Branch, 0.5 mi south of South Clinchfield, and 2.0 mi upstream from mouth.	20.9	1995-00	10- 3-01	3.76
0352403950 Unnamed tribu- tary [a]	Seven Springs Creek	Lat 36°51'46", long 82°15'46", NAD83, Russell County, at Seven Springs water treatment plant, 700 ft upstream from mouth, 800 ft south of State Highway 669, and 2.1 mi northwest of Dickensonville	.27	2000	10- 2-01	.220

† Operated as a continuous-record gaging station.

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DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at special study and miscellaneous sites during water year 2002--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
TENNESSEE RIVER BASIN--Continued						
0352404110 Unnamed tributary [a]	Mill Creek	Lat 36°51'06", long 82°17'01", NAD83, Russell County, at Sargent Spring water treatment plant, 0.5 mi upstream from mouth, and 1.65 mi southeast of Banners Corner.	.19	2000	10- 2-01	.070
03524300 Guest River [a]	Clinch River	Lat 36°58'35", long 82°37'16", NAD83, Wise County, at bridge on State Highway 625, 1.5 mi southwest of Stephens.	-	1978	6-18-02 8-14-02 9-25-02	3.90 1.78 1.80
0352430750 Sepulcher Creek [a]	Rocky Fork	Lat 36°58'58", long 82°36'52", NAD83, Wise County, at confluence with Rocky Fork, just west of State Highway 625, and 1.0 mi southwest of Stephens.	-	-	8-14-02 9-25-02	.268 .272
03524308 Rocky Fork [a]	Guest River	Lat 36°58'49", long 82°36'51", NAD83, Wise County, at bridge on State Highway 625, 1,000 ft downstream from Sepulcher Creek, and 1.1 mi southwest of Stephens.	-	-	6-18-02 8-14-02 9-25-02	1.17 .336 .393
03524415 Guest River [b]	Clinch River	Lat 36°56'03", long 82°31'57", NAD83, Wise County, at bridge on State Highway 706, at Tocoma, and 150 ft downstream from Whiteoak Branch.	58.5	1976-77, 1986, 1991-92	6-18-02	13.9
0352445 Toms Creek [b]	Guest River	Lat 36°56'33", long 82°28'09", NAD83, Wise County, at confluence with Little Toms Creek, 500 ft downstream from bridge on U.S. Highway 58 at Coeburn.	4.97	1952, 1955	6-18-02 8-14-02 9-25-02	6.34 2.20 2.15
03524449 Little Toms Creek [a]	Toms Creek	Lat 36°56'32", long 82°28'08", NAD83, Wise County, at confluence with Toms Creek, at Coeburn.	5.52	-	6-18-02 8-14-02 9-25-02	.946 .220 .327
03524500 Guest River [b]	Clinch River	Lat 36°55'45", long 82°28'23", NAD83, Wise County, at bridge on State Highway 72, 1.0 mi southeast of Coeburn, and 6.5 mi upstream from mouth.	87.3	1949-59†, 1979-81†, 1991-92	6-18-02 8-14-02 9-25-02	25.2 9.72 12.9
03524520 Crab Orchard Branch [a]	Guest River	Lat 36°54'52", long 82°26'06", NAD83, Wise County, 0.2 mi downstream from Boynton Road, 0.2 mi upstream from mouth, and 2.7 mi southeast of Coeburn.	-	-	6-18-02 8-14-02 9-25-02	.126 .000 .000
0352455450 Sinking Creek [a]	Clinch River	Lat 36°50'12", long 82°23'14", NAD83, Scott County, 1.1 mi upstream from Roaring Branch, 1.4 mi southwest of Mew, and 3.6 mi upstream from Karst.	4.05	-	10- 2-01	.556
03525935 Culbertson Branch [a]	Valley Creek	Lat 36°46'41, long 82°27'47", NAD83, Scott County, at school discharge, at Twin Springs, 2.7 mi upstream from mouth, and 3.3 mi south of Dungannon.	1.59	-	10- 2-01	.660

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Discharge measurements made at special study and miscellaneous sites during water year 2002--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
TENNESSEE RIVER BASIN--Continued						
03529335 Mill Branch [a]	Powell River	Lat 36°55'29", long 82°44'44", NAD83, Wise County, at Appalachia Elementary School discharge, 100 ft upstream from U.S. Highway 23 and 58 alternate, and 2.3 mi east of Appalachia.	2.70	-	10- 4-01	.639
03529430 Lick Branch [a]	Pigeon Creek	Lat 36°52'55", long 82°50'00", NAD83, Wise County, at conflu- ence with Pigeon Creek, at Lower Exeter, 500 ft north of State Highway 68, and 1.5 mi west of Imboden.		1997-99	10-04-01	.767

a Provided by the Virginia Department of Environmental Quality - Water Division.

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD, SPECIAL STUDY,
AND MISCELLANEOUS SITES

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POQUOSON RIVER BASIN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L AS SO4) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, PAR TICULATE WAT FLT (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)
01677832 HARWOODS MILL RESERVOIR ABOVE AIRPORT NR TABB, VA (LAT 37 08 44N LONG 076 28 26W)													
AUG 2002													
09...	9.0	169	<.015	.41	.49	<.013	<.002	--	.009	<.007	.038	--	--
09...	1.9	152	1.02	1.4	1.4	<.013	.003	--	.036	.024	.059	--	--
01677850 HARWOODS MILL RESERVOIR ABOVE HWY 17 AT TABB, VA (LAT 37 08 16N LONG 076 27 40W)													
JUN 2002													
19...	--	--	<.015	.41	.76	<.013	<.002	--	.006	<.007	.026	--	--
19...	--	--	.244	.64	.84	<.013	<.002	--	.037	.026	.061	--	--
JUL													
24...	--	--	<.015	.34	.42	<.013	<.002	--	.005	<.007	.023	--	--
24...	--	--	1.12	1.6	1.6	<.013	<.002	--	.054	.046	.075	--	--
AUG													
08...	8.8	142	<.015	.32	.45	<.013	<.002	--	.008	<.007	.028	--	--
08...	E.1	158	1.62	2.0	1.8	<.013	E.002	--	.131	.118	.093	--	--
SEP													
17...	--	--	.021	.36	.49	E.012	.003	.58	.006	<.007	.023	2.7	5.7
17...	--	--	4.83	5.5	5.9	E.010	.006	1.17	.014	<.007	.051	4.7	13.7
23...	--	--	<.015	.34	.52	<.013	<.002	.25	.006	<.007	.033	1.7	5.6
23...	--	--	2.24	2.8	2.9	<.013	<.002	.26	.020	.012	.054	1.2	8.4
23...	--	--	--	--	--	--	--	--	--	--	.89	--	--
27...	--	--	.180	.44	.65	E.010	E.002	.25	.007	<.007	.029	1.7	5.9
27...	--	--	.542	.97	1.1	<.013	E.002	.36	.007	<.007	.043	2.4	6.6
27...	--	--	.696	1.1	1.3	<.013	<.002	.34	.006	<.007	.043	1.9	6.6
27...	--	--	<.015	<.10	<.10	<.013	<.002	--	<.004	<.007	<.004	--	E.2

Date	PHEO- PHYTO- A, PHYTO- PHYTON (UG/L) (62360)	CHLOR-A PHYTO- PLANK- TON CHROMO- FLUOROM (UG/L) (70953)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	H-2 / H-1 STABLE RATIO PER MIL (82082)	O-18 / O-16 STABLE RATIO PER MIL (82085)
------	--	---	---	--	---	--	---	--	--

01677832 HARWOODS MILL RESERVOIR ABOVE AIRPORT NR TABB, VA (LAT 37 08 44N LONG 076 28 26W)

AUG 2002									
09...	--	8.2	--	--	E6	--	8.1	--	--
09...	--	25.3	--	--	5950	--	4550	--	--

01677850 HARWOODS MILL RESERVOIR ABOVE HWY 17 AT TABB, VA (LAT 37 08 16N LONG 076 27 40W)

JUN 2002									
19...	--	--	--	--	--	--	--	-11.5	-1.83
19...	--	--	--	--	--	--	--	-18.0	-3.05
JUL									
24...	--	5.0	--	--	--	--	--	-9.5	-.76
24...	--	56.9	--	--	--	--	--	-18.7	-3.00
AUG									
08...	--	10.0	--	--	<10	--	E1.2	-8.5	-.76
08...	--	37.3	--	--	10200	--	6900	-17.6	-3.00
SEP									
17...	10.2	7.7	13.5	22.5	<10	60	--	-7.4	-.67
17...	31.1	36.1	.6	19.0	19800	17700	--	-16.0	-2.34
23...	9.2	16.9	50.9	97.3	17	150	--	-8.1	-.66
23...	29.0	17.1	.9	32.8	2090	2750	--	-11.6	-1.50
23...	--	29.2	--	--	--	--	--	--	--
27...	10.5	13.1	30.2	49.9	25	220	--	-8.3	-.69
27...	14.6	11.1	6.0	56.2	180	630	--	-8.3	-.78
27...	14.8	11.7	9.6	55.9	99	650	--	-8.7	-.80
27...	--	--	<.2	<.6	<10	<10	--	--	--

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD, SPECIAL STUDY,
AND MISCELLANEOUS SITES

JAMES RIVER BASIN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, PAR TICULATE WAT FLT (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)
0204278995 BAPTIST RUN AT RT 637 NEAR YORKTOWN, VA (LAT 37 12 48N LONG 076 31 45W)													
JUN 2002													
20...	--	--	.054	.13	.46	.217	.009	--	.058	.048	.125	--	--
JUL													
24...	--	--	.036	E.08	.18	.206	.006	--	.060	.051	.097	--	--
SEP													
17...	--	--	<.015	.16	.23	.036	E.002	.09	.037	.031	.060	.6	3.8
0204279210 LEE HALL RESERVOIR ABOVE I-64 NEAR LEE HALL, VA (LAT 37 10 58N LONG 076 32 52W)													
JUN 2002													
19...	--	--	<.015	.43	.65	<.013	<.002	--	.008	<.007	.041	--	--
19...	--	--	E.010	.47	.72	<.013	<.002	--	.008	<.007	.053	--	--
JUL													
24...	--	--	<.015	.41	.62	<.013	<.002	--	.011	<.007	.044	--	--
24...	--	--	<.015	.41	.67	<.013	<.002	--	.011	<.007	.046	--	--
AUG													
12...	3.0	137	<.015	.39	.80	<.013	<.002	--	.011	<.007	.058	--	--
12...	2.5	137	<.015	.38	.83	<.013	<.002	--	.011	<.007	.067	--	--
SEP													
11...	--	--	<.015	.40	1.1	<.013	<.002	--	.009	<.007	.057	--	7.0
11...	--	--	<.015	.41	1.1	<.013	<.002	--	.008	<.007	.060	--	7.1
18...	--	--	<.015	.45	.94	<.013	<.002	.58	.006	<.007	.050	3.1	7.0
18...	--	--	.132	.58	1.2	<.013	<.002	.79	.009	<.007	.070	4.4	7.1
23...	--	--	<.015	.42	.89	<.013	<.002	.70	.007	<.007	.054	4.1	7.0
23...	--	--	.137	.57	1.0	<.013	<.002	.34	.008	<.007	.075	2.0	7.0
27...	--	--	.075	.49	.89	<.013	<.002	.41	.009	<.007	.062	2.2	7.0
27...	--	--	.103	.54	.98	<.013	E.002	.49	.009	<.007	.065	3.1	7.2
27...	--	--	--	--	--	--	--	--	--	--	1.99	--	--
0204279220 CURTIS RUN AT RT 168 AT LEE HALL, VA (LAT 37 11 50N LONG 076 34 05W)													
JUN 2002													
19...	--	--	.035	.51	.66	.115	.003	--	.022	.010	.051	--	--
JUL													
24...	--	--	.022	.40	.49	.067	E.002	--	.009	E.004	.032	--	--
AUG													
13...	11.4	223	.027	.38	.55	.088	.003	--	.007	<.007	.033	--	--
13...	11.4	228	.028	.38	.59	.086	.003	--	.007	<.007	.031	--	--
SEP													
17...	--	--	.016	.38	.70	.162	.003	.45	.005	<.007	.048	2.9	6.1
0204279224 LEE HALL RESERVOIR AB POWER LINE AT LEE HALL, VA (LAT 37 11 15N LONG 076 33 49W)													
AUG 2002													
12...	10.9	223	<.015	.34	.54	<.013	<.002	--	.008	<.007	.033	--	--
0204279230 LEE HALL RESERVOIR AB RT 105 NR LEE HALL, VA (LAT 37 10 32N LONG 076 33 47W)													
JUN 2002													
19...	--	--	<.015	.42	.55	<.013	<.002	--	.009	<.007	.032	--	--
19...	--	--	.022	.50	.57	<.013	<.002	--	.014	<.007	.053	--	--
JUL													
24...	--	--	.018	.43	.49	<.013	<.002	--	.007	<.007	.033	--	--
24...	--	--	<.015	.31	.46	<.013	<.002	--	.006	<.007	.039	--	--
24...	--	--	<.015	<.10	<.10	<.013	<.002	--	<.004	<.007	E.002	--	--

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD, SPECIAL STUDY,
AND MISCELLANEOUS SITES

JAMES RIVER BASIN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	Sample type	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	DEPTH BOTTOM AT SAMPLE LOC- ATION, (FEET)	SAM- PLING DEPTH (FEET)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	
			(00028)	(81903)	(00003)	(00077)	(00025)	(00300)	(00301)	(00400)	(00095)
0204279230 LEE HALL RESERVOIR AB RT 105 NR LEE HALL, VA (LAT 37 10 32N LONG 076 33 47W)											
AUG 2002											
13...	1245	ENVIRONMENTAL	USGS	11	1	38	766	8.9	115	8.2	333
13...	1250	ENVIRONMENTAL	USGS	11	10	--	766	5.0	62	7.2	379
SEP											
11...	1235	ENVIRONMENTAL	USGS	14	1	36	755	10.6	133	7.4	520
11...	1240	ENVIRONMENTAL	USGS	14	13	--	755	9.6	119	7.2	515
18...	1145	ENVIRONMENTAL	USGS	11	1	35	764	7.2	89	7.5	457
18...	1150	ENVIRONMENTAL	USGS	11	10	--	764	7.2	87	7.4	485
23...	1200	ENVIRONMENTAL	USGS	12	1	40	763	7.2	90	7.5	476
23...	1205	ENVIRONMENTAL	USGS	12	11	--	763	1.7	21	6.9	482
23...	1210	ENVIRONMENTAL	USGS	12	12	--	763	1.2	15	6.9	483
23...	1215	ENVIRONMENTAL	USGS	12	12	--	763	1.2	15	6.9	483
27...	1145	ENVIRONMENTAL	USGS	12	1	48	758	6.6	80	7.3	502
27...	1150	ENVIRONMENTAL	USGS	12	11	--	758	6.5	78	7.3	505
27...	1155	ENVIRONMENTAL	USGS	12	12	--	758	6.4	78	7.3	504
27...	1200	ENVIRONMENTAL	USGS	12	12	--	758	6.4	78	7.3	504
0204279240 LEE HALL RESERVIOR AT WTP NEAR LEE HALL, VA (LAT 37 10 13N LONG 076 33 23W)											
JUN 2002											
19...	1015	ENVIRONMENTAL	USGS	12	1	55	--	7.7	--	7.5	139
19...	1020	REPLICATE	USGS	12	1	55	--	7.7	--	7.5	139
19...	1030	ENVIRONMENTAL	USGS	11	10	--	--	.2	--	6.7	301
JUL											
24...	1010	ENVIRONMENTAL	USGS	11	1	37	766	6.3	82	7.5	145
24...	1015	ENVIRONMENTAL	USGS	11	10	--	766	6.2	80	7.3	145
AUG											
13...	1040	ENVIRONMENTAL	USGS	11	1	36	765	7.7	97	7.5	312
13...	1045	ENVIRONMENTAL	USGS	11	10	--	765	3.4	43	7.0	298
SEP											
11...	1155	ENVIRONMENTAL	USGS	12	1	30	755	10.8	136	7.3	503
11...	1200	ENVIRONMENTAL	USGS	12	11	--	755	9.8	122	7.2	495
18...	1105	ENVIRONMENTAL	USGS	10	1	35	765	8.3	102	7.5	519
18...	1110	ENVIRONMENTAL	USGS	10	9	--	765	7.4	90	7.3	516
23...	1100	ENVIRONMENTAL	USGS	12	1	55	764	7.2	89	7.5	483
23...	1105	ENVIRONMENTAL	USGS	12	11	--	764	2.1	25	6.9	497
23...	1110	ENVIRONMENTAL	USGS	12	12	--	764	.2	3	6.7	521
27...	1045	ENVIRONMENTAL	USGS	10	1	49	760	6.7	81	7.3	488
27...	1050	ENVIRONMENTAL	USGS	10	9	--	760	6.0	72	7.2	487

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD, SPECIAL STUDY,
AND MISCELLANEOUS SITES

JAMES RIVER BASIN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L (70300)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, PAR TICULATE WAT FLT (MG/L AS N) (49570)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)
0204279230 LEE HALL RESERVOIR AB RT 105 NR LEE HALL, VA (LAT 37 10 32N LONG 076 33 47W)													
AUG 2002													
13...	8.6	191	<.015	.35	.56	<.013	<.002	--	.008	<.007	.034	--	--
13...	9.6	211	.051	.46	.61	.013	<.002	--	.010	<.007	.048	--	--
SEP													
11...	--	--	.035	.34	.67	<.013	<.002	.31	.007	<.007	.036	1.8	5.9
11...	--	--	.066	.36	.64	<.013	<.002	.65	.007	<.007	.037	2.5	5.9
18...	--	--	.051	.40	.61	E.009	<.002	.33	.005	<.007	.036	1.7	5.8
18...	--	--	.053	.41	.69	<.013	<.002	.26	.006	<.007	.039	1.5	5.7
23...	--	--	.027	.38	.56	E.011	E.002	.21	.006	<.007	.036	1.4	6.0
23...	--	--	.311	.71	.77	.016	E.002	.20	.010	E.004	.051	1.5	6.1
23...	--	--	--	--	--	--	--	--	--	--	.37	--	--
23...	--	--	--	--	--	--	--	--	--	--	.84	--	--
27...	--	--	.093	.45	.71	.020	.003	.31	.007	<.007	.034	2.0	6.6
27...	--	--	.094	.44	.66	.021	.003	.45	.007	<.007	.038	2.7	6.5
27...	--	--	--	--	--	--	--	--	--	--	.77	--	--
27...	--	--	--	--	--	--	--	--	--	--	.88	--	--
0204279240 LEE HALL RESERVIOR AT WTP NEAR LEE HALL, VA (LAT 37 10 13N LONG 076 33 23W)													
JUN 2002													
19...	--	--	E.010	.42	.64	<.013	<.002	--	.007	<.007	.022	--	--
19...	--	--	E.009	.47	.70	<.013	<.002	--	.008	<.007	.026	--	--
19...	--	--	.057	.50	.65	<.013	<.002	--	.007	<.007	.029	--	--
JUL													
24...	--	--	<.015	.32	.48	<.013	<.002	--	.006	<.007	.031	--	--
24...	--	--	E.008	.34	.48	<.013	<.002	--	.006	<.007	.031	--	--
AUG													
13...	13.8	179	E.008	.32	.51	<.013	<.002	--	.005	<.007	.029	--	--
13...	8.1	169	.091	.42	.88	<.013	<.002	--	.011	<.007	.069	--	--
SEP													
11...	--	--	.100	.41	.69	E.009	<.002	1.11	.007	<.007	.029	4.3	5.7
11...	--	--	.115	.41	.71	<.013	<.002	.43	.007	<.007	.030	2.1	5.7
18...	--	--	.062	.39	.61	<.013	<.002	.41	.004	<.007	.023	1.9	5.6
18...	--	--	.332	.68	.97	E.009	<.002	.42	.006	<.007	.039	2.1	5.7
23...	--	--	.070	.37	.53	.013	E.002	.22	E.004	<.007	.024	1.5	5.6
23...	--	--	.368	.91	.86	E.009	E.002	.30	.005	<.007	.038	2.0	5.8
23...	--	--	--	--	--	--	--	--	--	--	3.33	--	--
27...	--	--	.135	.48	.72	.020	.003	.27	.006	<.007	.031	1.5	6.3
27...	--	--	.159	.50	.70	.020	E.002	.20	.007	<.007	.033	1.3	6.2

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD, SPECIAL STUDY,
AND MISCELLANEOUS SITES

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JAMES RIVER BASIN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	PHYTO- PHYTIN A, PHYTO- (UG/L) (62360)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
0204279230 LEE HALL RESERVOIR AB RT 105 NR LEE HALL, VA (LAT 37 10 32N LONG 076 33 47W)									
AUG 2002									
13...	--	9.1	--	--	31	--	E2.8	-7.3	-56
13...	--	10.5	--	--	177	--	328	-8.6	-72
SEP									
11...	9.4	13.0	--	--	--	--	--	-8.0	-47
11...	9.8	14.4	--	--	--	--	--	-7.8	-54
18...	11.3	14.0	5.9	9.5	15	330	--	-7.7	-36
18...	16.9	16.2	6.4	14.8	24	390	--	-7.7	-40
23...	--	5.6	56.5	94.7	27	210	--	-6.6	-36
23...	--	4.9	41.9	50.3	124	760	--	-6.9	-54
23...	--	5.8	--	--	--	--	--	--	--
23...	--	5.8	--	--	--	--	--	--	--
27...	--	6.5	21.3	36.4	19	270	--	-7.8	-56
27...	--	7.3	21.0	38.2	40	290	--	-8.3	-50
27...	--	7.2	--	--	--	--	--	--	--
27...	--	7.2	--	--	--	--	--	--	--
0204279240 LEE HALL RESERVIOR AT WTP NEAR LEE HALL, VA (LAT 37 10 13N LONG 076 33 23W)									
JUN 2002									
19...	--	--	--	--	--	--	--	-10.8	-1.39
19...	--	--	--	--	--	--	--	-10.7	-1.60
19...	--	--	--	--	--	--	--	-10.2	-1.61
JUL									
24...	--	9.1	--	--	--	--	--	-10.6	-.85
24...	--	10.2	--	--	--	--	--	-10.1	-.79
AUG									
13...	--	8.9	--	--	<10	--	116	-7.5	-.69
13...	--	12.7	--	--	27	--	446	-8.1	-.65
SEP									
11...	10.1	14.6	--	--	--	--	--	-8.6	-.52
11...	10.6	14.2	--	--	--	--	--	-8.2	-.56
18...	10.0	12.2	6.7	10.3	<10	140	--	-9.4	-.46
18...	14.2	15.8	5.3	17.5	19	500	--	-7.4	-.52
23...	--	4.3	48.9	85.7	<10	130	--	-7.4	-.46
23...	--	6.6	36.0	119	907	900	--	-8.0	-.47
23...	--	--	--	--	--	--	--	--	--
27...	--	4.3	20.6	34.1	E6	200	--	-7.3	-.49
27...	--	6.2	19.6	48.2	E8	340	--	-7.3	-.54

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CONVERSION FACTORS

Multiply	By	To obtain
Length		
inch (in.)	2.54×10^1	millimeter
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter
mile (mi)	1.609×10^0	kilometer
Area		
acre	4.047×10^3	square meter
	4.047×10^{-1}	square hectometer
	4.047×10^{-3}	square kilometer
square mile (mi ²)	2.590×10^0	square kilometer
Volume		
gallon (gal)	3.785×10^0	liter
	3.785×10^0	cubic decimeter
	3.785×10^{-3}	cubic meter
million gallons (Mgal)	3.785×10^3	cubic meter
	3.785×10^{-3}	cubic hectometer
cubic foot (ft ³)	2.832×10^1	cubic decimeter
	2.832×10^{-2}	cubic meter
cubic-foot-per-second day [(ft ³ /s) d]	2.447×10^3	cubic meter
	2.447×10^{-3}	cubic hectometer
acre-foot (acre-ft)	1.233×10^3	cubic meter
	1.233×10^{-3}	cubic hectometer
	1.233×10^{-6}	cubic kilometer
Flow		
cubic foot per second (ft ³ /s)	2.832×10^1	liter per second
	2.832×10^1	cubic decimeter per second
	2.832×10^{-2}	cubic meter per second
gallon per minute (gal/min)	6.309×10^{-2}	liter per second
	6.309×10^{-2}	cubic decimeter per second
	6.309×10^{-5}	cubic meter per second
million gallons per day (Mgal/d)	4.381×10^1	cubic decimeter per second
	4.381×10^{-2}	cubic meter per second
Mass		
ton (short)	9.072×10^{-1}	megagram or metric ton

Temperature in degrees Celsius (°C) may be converted to degrees Fahrenheit (°F) as follows:

$$\text{°F} = (1.8 \times \text{°C}) + 32$$